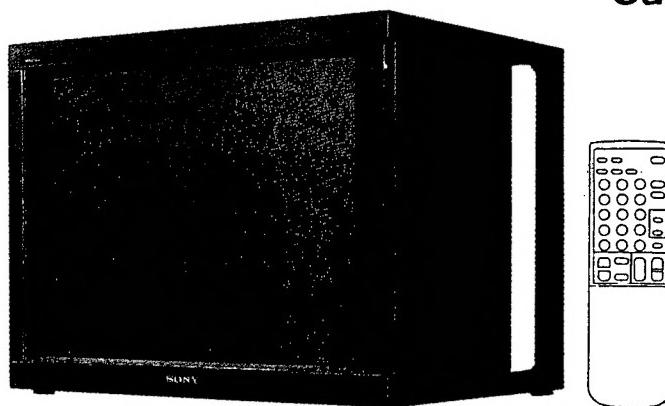


# PVM-2950Q/2950QM

RM-854

## SERVICE MANUAL



*US Model*

*Canadian Model*

PVM-2950Q

*Chassis No. SCC-G61E-A*

*AEP Model*

PVM-2950QM

*Chassis No. SCC-G62D-A*

*Aus Model*

PVM-2950QM

*Chassis No. SCC-H03B-A*

### MODELS OF THE SAME SERIES

PVM-2950Q/2950QM	

### SPECIFICATIONS

#### Video signal

Picture tube

29" Super Trinitron tube  
Visible picture size : 675 mm  
(27" measured diagonally)  
AG pitch : 0.70 - 0.85 mm  
Anti-glare & Anti-static

Color system

NTSC, PAL, SECAM, NTSC4.43, PAL60

Resolution

600 TV lines at the center

Frequency response

VIDEO : 7 MHz (-3 dB)  
S VIDEO : 8 MHz (-3 dB)  
RGB : 10 MHz (-3 dB)

#### Picture performance

Color temperature

9300K/6500K (standard)/3200K

switchable

Line pull range

Horizontal : ±500 Hz

Overscan

Vertical : -8 Hz

Zooming

7% preset ( $\pm 3\%$  variable)

Within 5%

- Continued on next page -

TRINITRON® COLOR VIDEO MONITOR  
**SONY®**



**Inputs and Outputs**

VIDEO IN	BNC connector 1 Vp-p, sync negative 75-ohm (auto), loop through
Y/C IN	4-pin mini DIN connector Y : 1 Vp-p, sync negative C : 0.286 Vp-p (burst signal) (NTSC) 0.3 Vp-p (PAL) 75-ohm (auto), loop through
AUDIO IN (L, R)	Phono jack -5 dBs high impedance, loop through
R/R-Y, G/Y, B/B-Y IN	BNC connector R, G, B channels : 0.714 Vp-p,/non-composite, 75-ohm terminated (525 lines) 0.7 Vp-p,/non composite, 75-ohm terminated (625 lines) 1 Vp-p,/composite, 75-ohm terminated Y channel : 1.0 Vp-p,/composite, 75-ohm terminated 0.7 Vp-p,/non composite, 75-ohm terminated R-Y, B-Y channels : 0.7 Vp-p, 75-ohm terminated
Sync input	BNC connector H (or composite) SYNC, V SYNC, 0.5 - 5 Vp-p, 75-ohm terminated
Speaker output	8-16 ohm, 7 W + 7 W

**(CAUTION)**

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

**WARNING!!**

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

**SAFETY-RELATED COMPONENT WARNING !!**

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

**General**

Power requirements	PVM-2950Q 100 - 120 V AC, 50/60 Hz, MAX. 3.7 A PVM-2950QM 220 - 240 V AC, 50/60 Hz, MAX. 1.2 A
Operating temperature range	0 - 35° C (32 - 95° F)
Dimensions	687×538×529 mm (w/h/d) (27 1/8×21 1/4×20 7/8 inches)
Mass	52 kg (114 lb 10 oz)
Supplied accessories	AC power cord (1) AC plug holder (1) Remote commander RM-854 with a battery (1)
Optional accessories	
Speaker system	SS-X6A
TV tuner	ST-92TV (USA only)

Design and specifications are subject to change without notice.

**(ATTENTION)**

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURTCIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

**ATTENTION!!**

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHASSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISE LORS DE TOUT DEPANNAGE.  
LE CHASSIS DE CE RECEPTEUR EST DIRECTEMENT RACCORDE A L'ALIMENTATION SECTEUR.

**ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!**

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE  $\Delta$  SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES remplacer que par des composants SONY dont le numero de piece est indique dans le present manuel ou dans des suppléments publies par Sony. Les reglages de circuit dont l'importance est critique pour la securite du fonctionnement sont identifies dans le present manuel. suivre ces procedures lors de chaque remplacement de composants critiques, ou lorsqu'un mauvais fonctionnement est suspecte.

## SAFETY CHECK-OUT

( US model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cord for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
9. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)

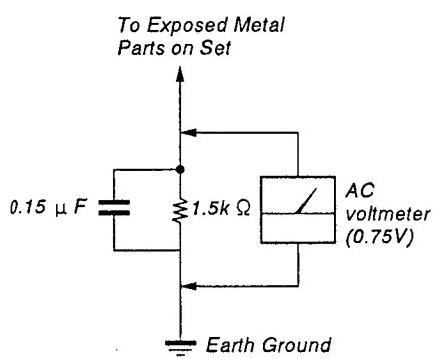


Fig. A. Using an AC voltmeter to check AC leakage.

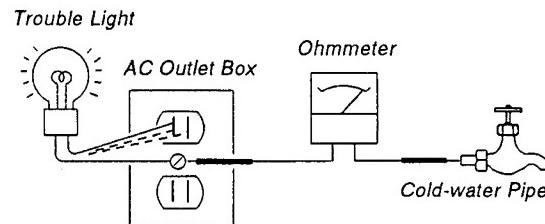


Fig. B. Checking for earth ground.

**TABLE OF CONTENTS**

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>																																																						
<b>1. GENERAL</b>			<b>6. CIRCUIT ADJUSTMENTS</b>																																																								
Features .....	5		6-1. B Board Adjustments .....	31																																																							
Location and Function of Parts and Controls .....	6		6-2. A Board Adjustment .....	36																																																							
Power Sources .....	9		6-3. UT Board Adjustment .....	37																																																							
Using On-screen Menus .....	10		6-4. VC Board Adjustment .....	37																																																							
Operating a Specific Monitor with the Remote Commander.....	12																																																										
<b>2. DISASSEMBLY</b>			<b>7. DIAGRAMS</b>																																																								
2-1. Rear Cover Removal.....	13		7-1. Block Diagrams (1) .....	39																																																							
2-2. Chassis Assy Removal.....	13		Block Diagrams (2) .....	44																																																							
2-3. Service Position.....	14		7-2. Frame Schematic Diagram.....	49																																																							
2-4. UA Board Removal .....	14		7-3. Circuit Boards Location .....	52																																																							
2-5. B Board Removal.....	14		7-4. Schematic Diagrams and Printed Wiring Boards.....	52																																																							
2-6. UJ Board Removal .....	15		• VC Board .....	53																																																							
2-7. G1 Board Removal.....	15		• G1 Board .....	53																																																							
2-8. G Board Removal .....	16		• G Board.....	54																																																							
2-9. UT Board Removal .....	16		• H2 Board.....	55																																																							
2-10. A Board Removal .....	17		• H3 Board.....	55																																																							
2-11. Extension Cable.....	17		• A Board.....	65																																																							
2-12. Extension Board .....	18		• B Board.....	70																																																							
2-13. Key Board Unit and Blind Panel Removal .....	18		• DX Board .....	81																																																							
2-14. Degaussing Coil Removal .....	19		• V Board.....	83																																																							
2-15. Picture Tube Removal .....	19		• M Board .....	83																																																							
2-16. Harness Location .....	20		• UT Board.....	87																																																							
<b>3. SET-UP ADJUSTMENTS</b>			• UJ Board .....	89		3-1. Beam Landing.....	22		• UA Board .....	90		3-2. Convergence Adjustment .....	23		• C Board.....	94		3-3. Focus Adjustment .....	26		7-5. Semiconductors .....	97		3-4. Screen (G2) White Balance Adjustment .....	26		<b>4. SAFETY RELATED ADJUSTMENT</b> .....	27		<b>8. EXPLODED VIEWS</b>			<b>5. ELECTRIC ADJUSTMENT IN THE SERVICE MODE</b> .....	29					8-1. Rear Cover.....	99					8-2. Picture Tube .....	100					8-3. Chassis.....	101					<b>9. ELECTRICAL PARTS LIST</b> .....	102	
• UJ Board .....	89																																																										
3-1. Beam Landing.....	22		• UA Board .....	90		3-2. Convergence Adjustment .....	23		• C Board.....	94		3-3. Focus Adjustment .....	26		7-5. Semiconductors .....	97		3-4. Screen (G2) White Balance Adjustment .....	26		<b>4. SAFETY RELATED ADJUSTMENT</b> .....	27		<b>8. EXPLODED VIEWS</b>			<b>5. ELECTRIC ADJUSTMENT IN THE SERVICE MODE</b> .....	29					8-1. Rear Cover.....	99					8-2. Picture Tube .....	100					8-3. Chassis.....	101					<b>9. ELECTRICAL PARTS LIST</b> .....	102							
• UA Board .....	90																																																										
3-2. Convergence Adjustment .....	23		• C Board.....	94		3-3. Focus Adjustment .....	26		7-5. Semiconductors .....	97		3-4. Screen (G2) White Balance Adjustment .....	26		<b>4. SAFETY RELATED ADJUSTMENT</b> .....	27		<b>8. EXPLODED VIEWS</b>			<b>5. ELECTRIC ADJUSTMENT IN THE SERVICE MODE</b> .....	29					8-1. Rear Cover.....	99					8-2. Picture Tube .....	100					8-3. Chassis.....	101					<b>9. ELECTRICAL PARTS LIST</b> .....	102													
• C Board.....	94																																																										
3-3. Focus Adjustment .....	26		7-5. Semiconductors .....	97		3-4. Screen (G2) White Balance Adjustment .....	26		<b>4. SAFETY RELATED ADJUSTMENT</b> .....	27		<b>8. EXPLODED VIEWS</b>			<b>5. ELECTRIC ADJUSTMENT IN THE SERVICE MODE</b> .....	29					8-1. Rear Cover.....	99					8-2. Picture Tube .....	100					8-3. Chassis.....	101					<b>9. ELECTRICAL PARTS LIST</b> .....	102																			
7-5. Semiconductors .....	97																																																										
3-4. Screen (G2) White Balance Adjustment .....	26																																																										
<b>4. SAFETY RELATED ADJUSTMENT</b> .....	27		<b>8. EXPLODED VIEWS</b>																																																								
<b>5. ELECTRIC ADJUSTMENT IN THE SERVICE MODE</b> .....	29					8-1. Rear Cover.....	99					8-2. Picture Tube .....	100					8-3. Chassis.....	101					<b>9. ELECTRICAL PARTS LIST</b> .....	102																																		
			8-1. Rear Cover.....	99																																																							
			8-2. Picture Tube .....	100																																																							
			8-3. Chassis.....	101																																																							
			<b>9. ELECTRICAL PARTS LIST</b> .....	102																																																							

## SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

# Features

### Trinitron picture tube

The Trinitron picture tube provides a flat and high resolution picture. Horizontal resolution is more than 600 TV lines at the center of the picture.

### Four color systems available

The monitor can display NTSC, PAL\*, SECAM, NTSC<sub>4.43</sub>\*\* signals. The appropriate color system is selected automatically.

\* If you set PAL to ON in the menu, the monitor can also display the PAL60 signal.

\*\* The NTSC<sub>4.43</sub> signal is used for playing back NTSC recorded video cassettes with a video tape recorder/player especially designed for use with this system.

### Index number

You can operate a specific monitor among several monitors by using the index number features.

### On-screen menus

You can adjust the settings by using the on-screen menus.

### Control S

The CONTROL S signal allows remote control of several monitors and a VCR through a single monitor.

### Blue only mode

In this mode, only a blue signal is displayed on the screen turning off the red and green signals. This facilitates color saturation and phase adjustments.

### RGB/component input connectors

RGB or component (Y,R-Y,B-Y) signals from video equipment can be input through these connectors.

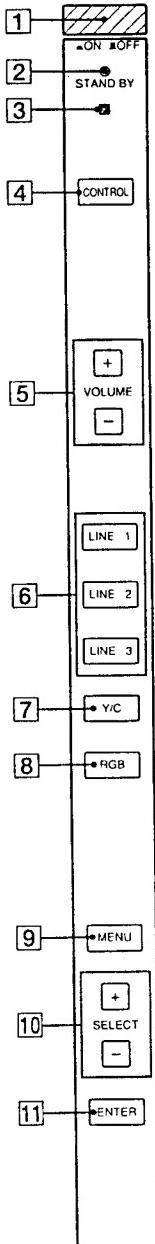
### Y/C input connector

The video signal, split into the chrominance signal (C) and the luminance signal (Y), can be input through this connector, eliminating the interference between the two signals, which tends to occur in a composite video signal, assuring video quality.

This manual covers PVM-2950Q and PVM-2950QM. The model number is located on the rear.  
The operating procedures of all models are the same.

# Location and function of parts and controls

## Front panel



### ① POWER switch

Press to turn the monitor on. Press again to turn it off.

### ② STANDBY indicator

Lights up when the monitor is turned off with the remote commander.

### ③ Remote sensor

Receives the beam from the remote commander.

### ④ CONTROL key

To operate the keys on the front panel, first press this key. Then the keys light up or flash that shows they can be operated. Press again to deactivate them.

### ⑤ VOLUME +/- keys

Press to obtain the desired volume.

### ⑥ LINE 1, LINE 2, LINE 3 keys\*

Press to select the line inputs.

### ⑦ Y/C key\*

Press to select the Y/C input of LINE 1 or LINE 2.

### ⑧ RGB key\*

Press to select the RGB input of LINE 3.

### ⑨ MENU key

Press to make the menu appear or to go to the following menu.

### ⑩ SELECT +/- key

Press to move the cursor (►) to an item or to adjust value in a menu.

### ⑪ ENTER key

Press to select the desired item in a menu.

\* Each key acts as follows.

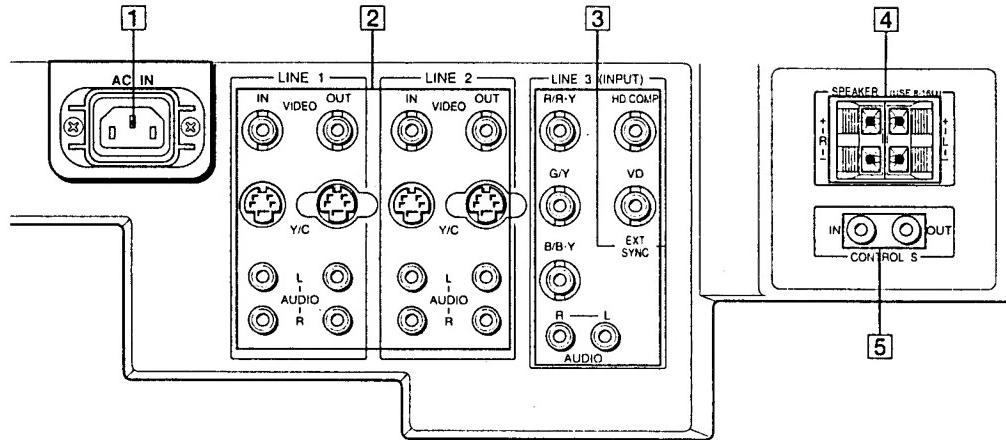
CONTROL	On	Off
Selected key	Flash	Light up
Not selected key	Light up	Light off

### Note

If the picture disappears suddenly and the STAND BY indicator flashes, there may be a failure in the monitor. Unplug the unit and call your authorized Sony dealer.



## Rear panel



### 1 AC IN socket

Connect the supplied AC power cord to this socket and to a wall outlet.

### 2 LINE 1, LINE 2 connectors

#### VIDEO IN (BNC)

Connect to the video output of video equipment, such as a VCR or a color video camera. For a loop-through connection, connect to the video output of another monitor.

#### VIDEO OUT (BNC)

Loop-through output of the VIDEO IN connector. Connect to the video input of a VCR or another monitor.

#### Y/C IN (4-pin mini DIN)

Connect to the Y/C separate output of a video camera, VCR or other video equipment.

#### Y/C OUT (4-pin mini DIN)

Loop-through output of the Y/C IN connector. Connect to the Y/C separate input of a VCR or another monitor.

#### AUDIO IN (phono)

Connect to the audio output of a VCR or to a microphone via a suitable microphone amplifier. For a loop-through connection, connect to the audio output of another monitor.

#### AUDIO OUT (phono)

Loop-through output of the AUDIO IN jack. Connect to the audio input of a VCR or another monitor.

### 3 LINE 3 connectors

#### RR-Y IN, G/Y IN, B/B-Y IN (BNC)

When the RGB input is selected (RGB key on the front panel is lit), connect to the RGB signal outputs of a video camera. When the R-Y, G/Y, B-Y input is selected (RGB key is not lit), connect to the R-Y/Y/B-Y component signal outputs of a Sony Betacam video camera.

#### HD/COMP (BNC)

Connect to the H sync signal or composite sync signal output.

#### VD (BNC)

Connect to the V sync signal output.

#### Note

External sync signal is selected automatically. See the priority chart below.

Input connector	Input sync signals		
HD/COMP	H Sync	Comp Sync	—
VD	V Sync	—	—
G	Sync on G	Sync on G	Sync on G
Sync signals to be selected	H Sync V Sync	Comp Sync	Sync on G

#### AUDIO IN (phono)

Connect to the audio output of a VCR.

### 4 SPEAKER L/R terminals

Connect to speakers with 8 to 16 ohms impedance.

#### Note

Do not connect the speaker's cord to the monitor and to an amplifier simultaneously, or an excessive electric current might flow from the amplifier and damage the monitor.

### 5 CONTROL S IN/OUT connectors

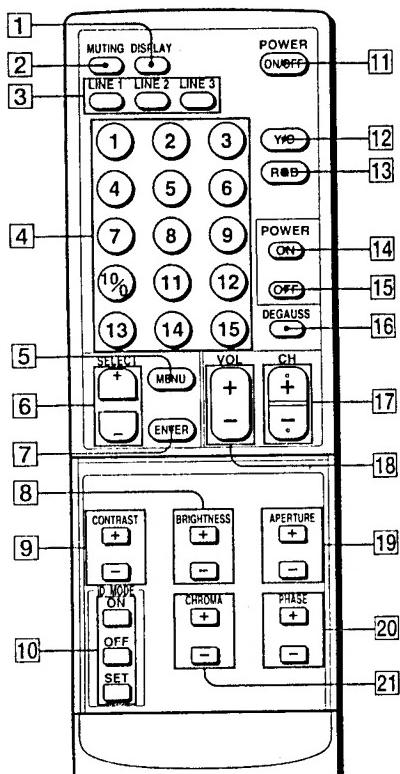
Connect to the CONTROL S connectors of a VCR or several monitors. Then you can control the system with a single remote commander.

#### Note

If you connect CONTROL S IN to the other equipment's CONTROL S OUT connector, you cannot operate the monitor with the supplied remote commander.

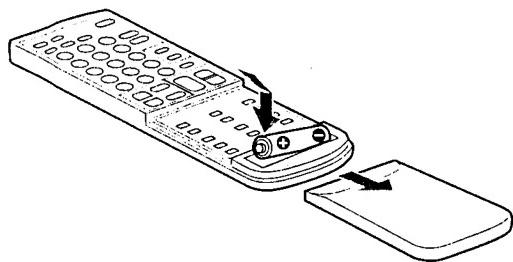
## **Location and function of parts and controls (continued)**

## Remote commander



### **Installing battery**

Insert a size AA (R6) battery in correct polarity.



## Notes

- In normal operation, a battery will last up to half a year. If the remote commander does not operate properly, the battery might be exhausted. Replace it with new one.
  - To avoid damage from possible battery leakage, remove the battery if you do not plan to use the remote commander for a fairly long time.

- [1] DISPLAY button**  
Press to display the color system and the selected line input.
  - [2] MUTING button**  
Press to mute the sound.
  - [3] LINE 1/LINE 2/LINE 3 buttons**  
Press to choose the line input.
  - [4] Number buttons**  
Press to select the index number. Cannot use the [11] to [15] buttons with the monitor.
  - [5] MENU button**  
Press to make the menu appear or to go to the following menu.
  - [6] SELECT +/- buttons**  
Press to move the cursor (▶) to an item or to adjust value in a menu.
  - [7] ENTER button**  
Press to select the desired item in a menu.
  - [8] BRIGHTNESS +/- buttons**  
Press the + button to make the picture brighter or the – button to make it darker.
  - [9] CONTRAST +/- buttons**  
Press the + button to increase the contrast or the – button to decrease it.
  - [10] ID MODE buttons**  
Press ON to make an index number appear on the screen. Then press the index number of the monitor you want to operate and press SET. After you finish the operation, press OFF to return to the normal mode.
  - [11] POWER ON/OFF button**  
Press to turn on the monitor. Press again to turn it off.
  - [12] Y/C button**  
Press to select the Y/C input of LINE 1 or LINE 2.
  - [13] RGB button**  
Press to select the RGB input of LINE 3. If you do not press this button (RGB key is not lit), the component input is selected on LINE 3.
  - [14] POWER ON button**  
Press to turn on the monitor. Use this button instead of the POWER ON/OFF button when you do not want to let another monitor be affected.
  - [15] POWER OFF button**  
Press to turn off the monitor. Use this button instead of the POWER ON/OFF button when you do not want to let another monitor be affected.

## Power sources

### 16 DEGAUSS button

Press to demagnetize the screen. Wait for 10 minutes or more before activating this feature again. The same interval is needed after turning on the monitor.

### 17 CH +/- buttons

(Cannot use these buttons with the monitor.)

### 18 VOL +/- buttons

Press to obtain the desired volume.

### 19 APERTURE +/- buttons

Press the + button for more sharpness or the - button for less sharpness. (This adjustment has no effect on the pictures of RGB signals.)

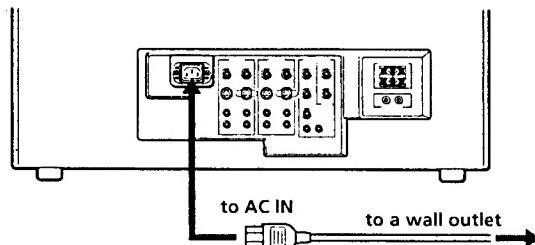
### 20 PHASE +/- buttons

Press the + button to make the skin tones greenish or the - button to make them purplish. (NTSC signal only)

### 21 CHROMA +/- buttons

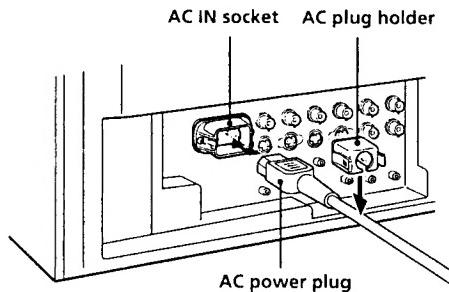
Press the + button to increase the color intensity and the - button to decrease it. (This adjustment has no effect on the pictures of RGB signals.)

Connect the AC power cord (supplied) to the AC IN socket and to a wall outlet.

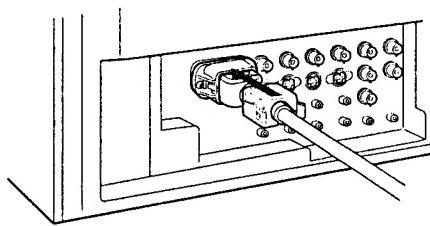


### To connect an AC power cord securely with an AC plug holder

- 1 Plug the power cord into the AC IN socket. Then, attach the AC plug holder (supplied) to the AC power cord.



- 2 Slide the AC plug holder over the cord until it connects to the attached holder.



### To remove the AC power cord

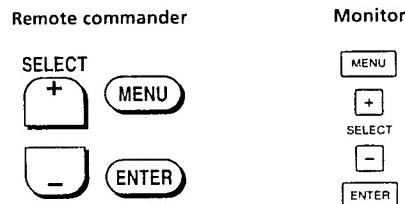
Squeeze the left and right sides and pull out the AC plug holder.

# Using on-screen menus

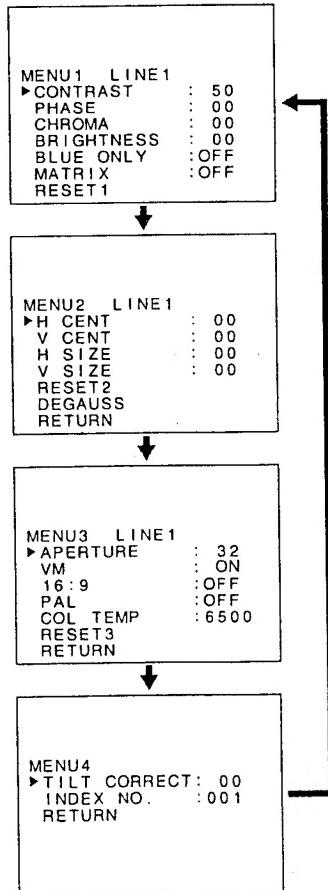
## Operating through menus

There are four buttons (keys) on the monitor and the remote commander for menu operations.  
To display a menu, first press MENU. Press + or - to move the cursor (►) and press ENTER to select an item.  
To return to the normal screen, press the selected line input button (key).

## Menu operating buttons



Each time you press MENU, the screen changes as shown below. For details see the following guide.



## Menu guide

You can adjust the picture for each line input. Select the line input by pressing the line input button (key) before making adjustments.  
The items on Menu 4 are common for all line inputs.

### Menu 1

1	MENU1	LINE 1	
2	► CONTRAST	: 50	
3	PHASE	: 00	
4	CHROMA	: 00	
5	BRIGHTNESS	: 00	
6	BLUE ONLY	: OFF	
7	MATRIX	: OFF	
	RESET1		

#### 1 CONTRAST

Press + to increase the contrast and press - to decrease it.

#### 2 PHASE

Press + to make the skin tones greenish and press - to make them purplish. (NTSC signal only)  
(Set MATRIX to OFF when adjusting this item.)

#### 3 CHROMA

Press + to increase the color intensity and press - to decrease it.  
(Set MATRIX to OFF when adjusting this item.)

#### 4 BRIGHTNESS

Press + to make the picture brighter and press - to make it darker.

#### 5 BLUE ONLY

Select ON to turn off the red and green signals. Only a blue signal is displayed on the screen. This facilitates "chroma" and "phase"(NTSC signal only) control adjustments.

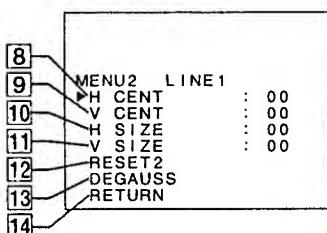
#### 6 MATRIX

Select ON to activate the matrix circuit that may correct skin tones. (NTSC signal only)

#### 7 RESET1

Select to restore the factory settings in MENU 1.

## Menu 2



### 8 H CENT

Adjusts the horizontal centering. Press + to move the picture to the right and press - to move it to the left.

### 9 V CENT

Adjusts the vertical centering. Press + to move the picture up and press - to move it down.

### 10 H SIZE

Adjusts the horizontal picture size. Press + to enlarge the horizontal size and press - to diminish it.

### 11 V SIZE

Adjusts the vertical picture size. Press + to enlarge the vertical size and press - to diminish it.

### 12 RESET2

Select to restore the factory settings in MENU 2.

### 13 DEGAUSS

Select to demagnetize the screen. Wait for 10 minutes or more before activating this feature again. The same interval is needed after turning on the monitor.

### 14 RETURN

Select to return to the MENU 1 screen.

## 17 16:9

Select ON for a 16:9 picture signal.

## 18 PAL

Select ON when the monitor does not recognize the PAL signal. (You must select ON when the PAL60 signal is input.)

## 19 COL TEMP

Select the color temperature from among 9300K, 6500K and 3200K.

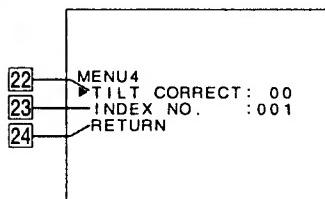
## 20 RESET3

Select to restore the factory settings in MENU 3.

## 21 RETURN

Select to return to the MENU 2 screen.

## Menu 4



## 22 TIILT CORRECT

Adjusts the picture tilt due to the influence of the earth's magnetism. Press + to rotate the picture clockwise and press - to rotate it counterclockwise.

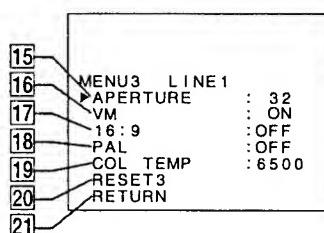
## 23 INDEX NO.

Sets the index number of the monitor. You cannot set the number with the remote commander. Use the keys on the monitor. For more information about the index number, see "Operating a specific monitor with the remote commander."

## 24 RETURN

Select to return to the MENU 3 screen.

## Menu 3



### 15 APERTURE

Adjusts the picture sharpness. Press + for more sharpness or press - for less sharpness. (This adjustment has no effect on the pictures of RGB signals.)

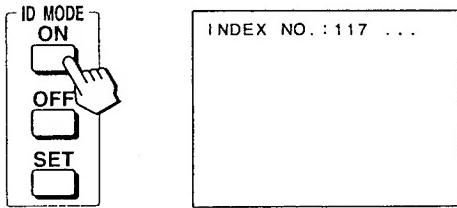
### 16 VM

Select ON to emphasize sharpness and to reproduce a clear picture. (This adjustment has no effect on the pictures of RGB signals.)

# Operating a specific monitor with the remote commander

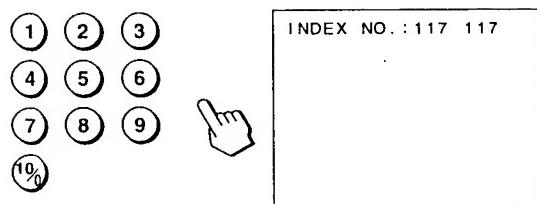
By following procedure, you can operate a specific monitor with the remote commander without affecting other monitors that are installed together.

- 1 Press ID MODE ON on the remote commander.  
Monitor index numbers appear in white characters on all the monitors. (Every monitor has its own index number from 1 to 255 as factory preset.)



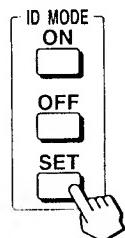
- 2 Input the index number of the monitor you want to operate using 0 – 9 buttons of the remote commander.

The input number appears right next to each monitor's own index number.



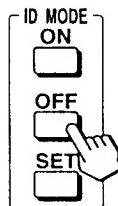
- 3 Press ID MODE SET.

The character on the selected monitor changes to cyan while others change to red.



Now you can operate only a specified monitor. (All operations available in ID mode except POWER ON/OFF.)

- 4 After necessary adjustment, press ID MODE OFF.  
The monitor returns to the normal mode.



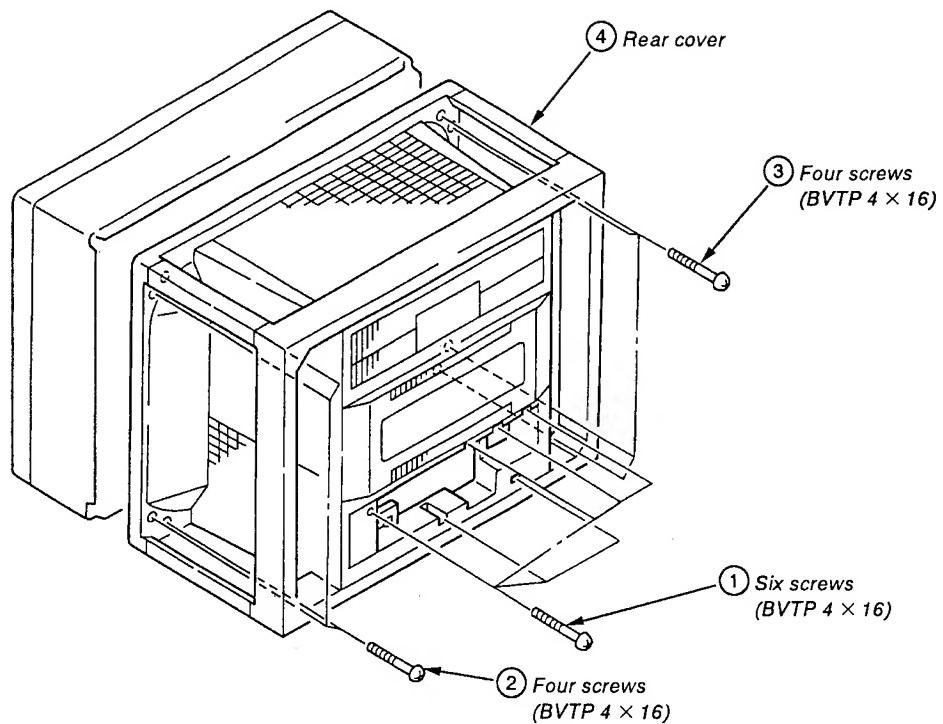
## To change the index number

You can change the index number if necessary. You cannot change the number with the remote commander. Use the keys on the monitor.

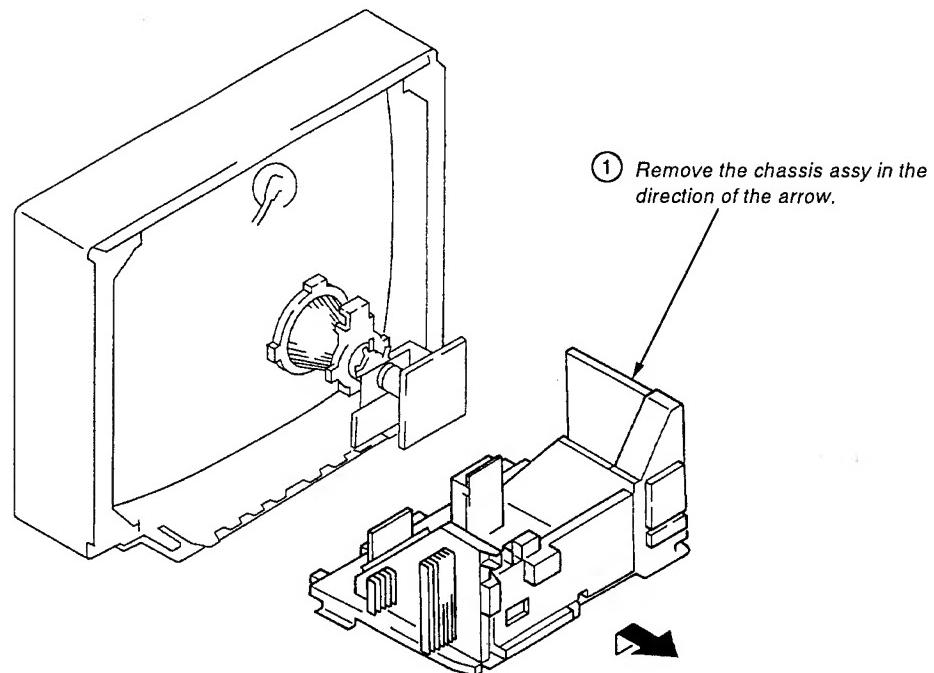
- 1 Display MENU 4 screen with pressing the MENU button.
- 2 Select INDEX NO. and press ENTER.
- 3 Select the index number with the SELECT +/- buttons and press ENTER.

## SECTION 2 DISASSEMBLY

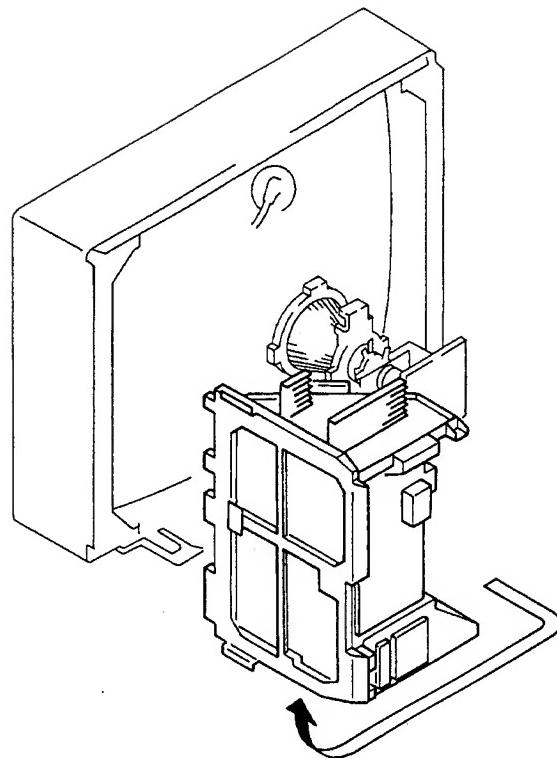
### 2-1. REAR COVER REMOVAL



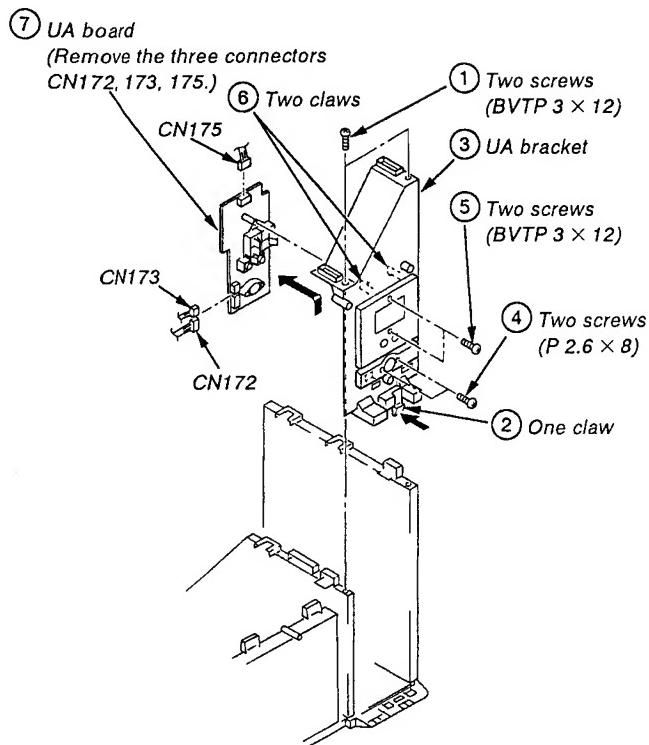
### 2-2. CHASSIS ASSY REMOVAL



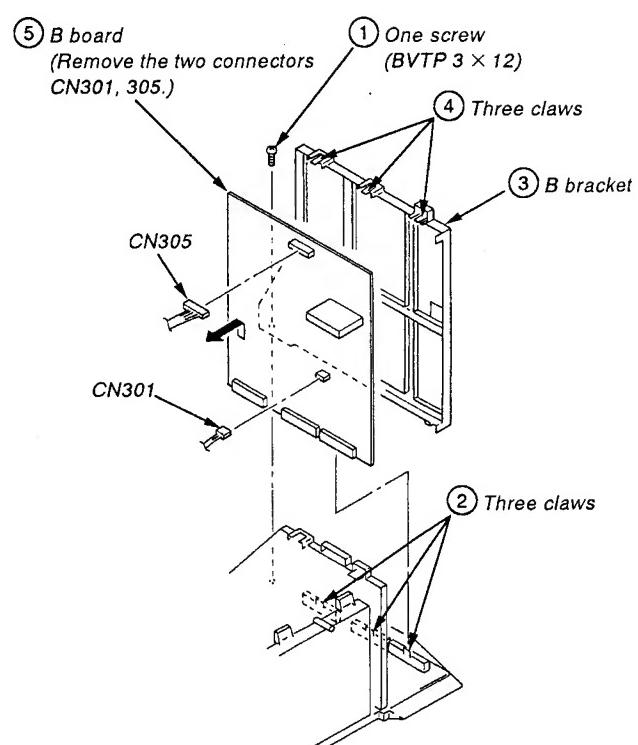
## 2-3. SERVICE POSITION



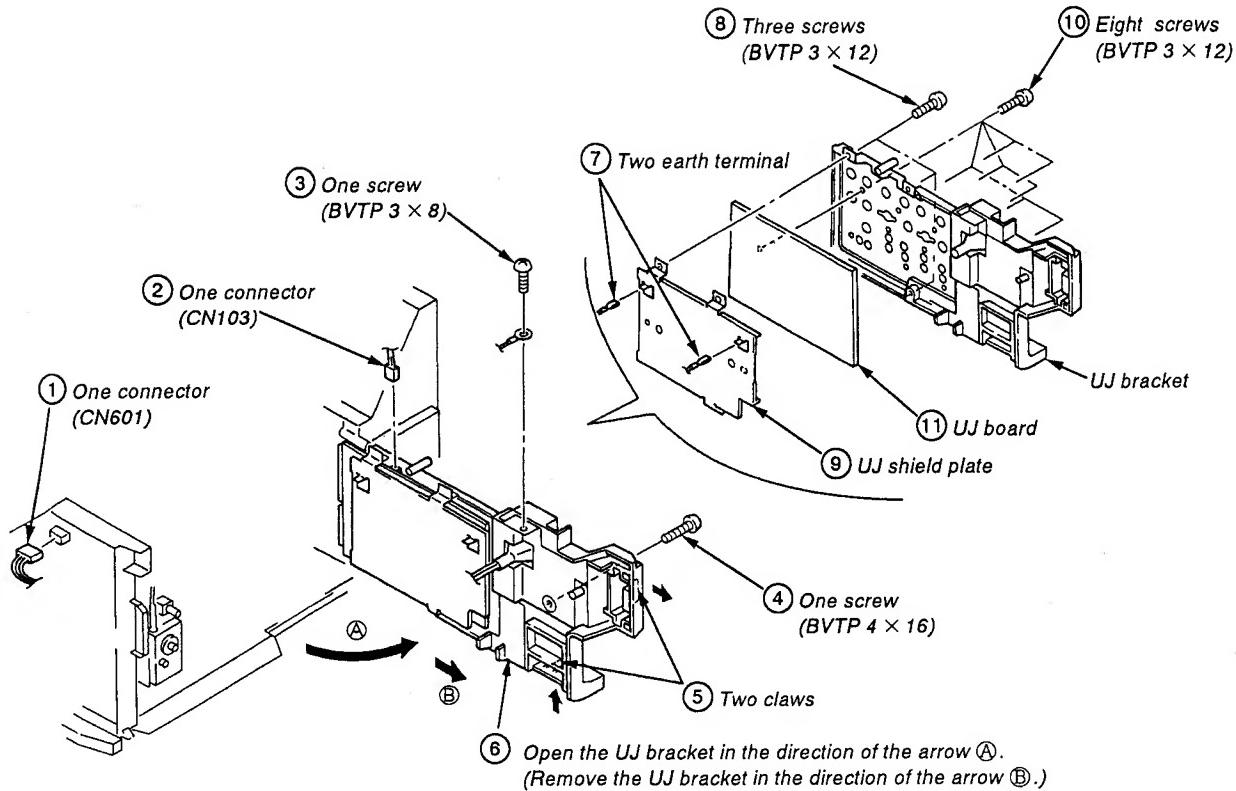
## 2-4. UA BOARD REMOVAL



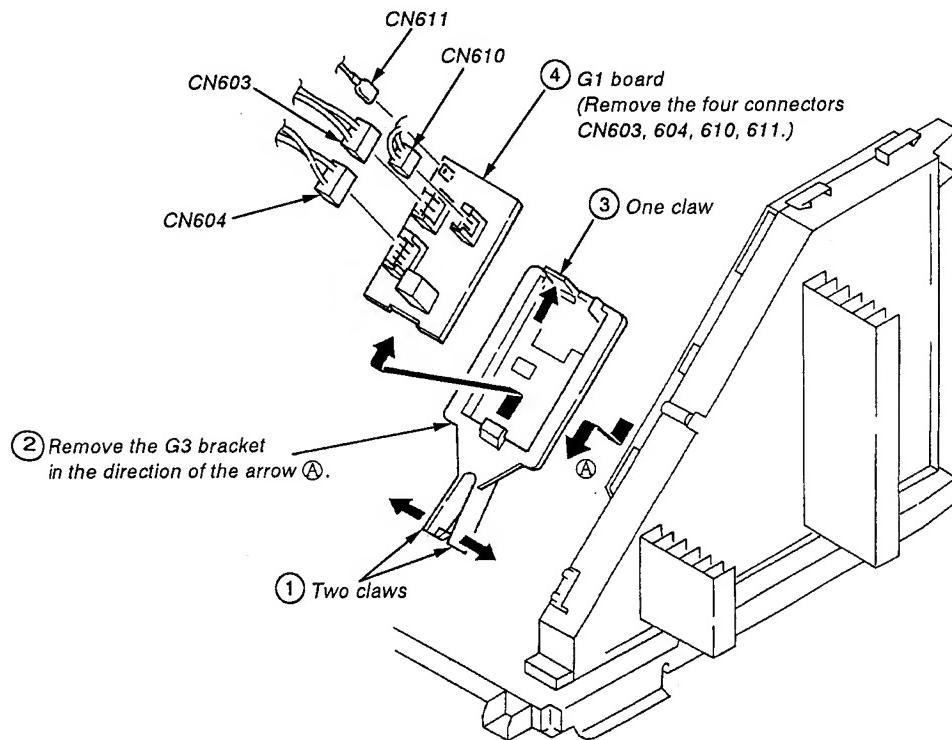
## 2-5. B BOARD REMOVAL



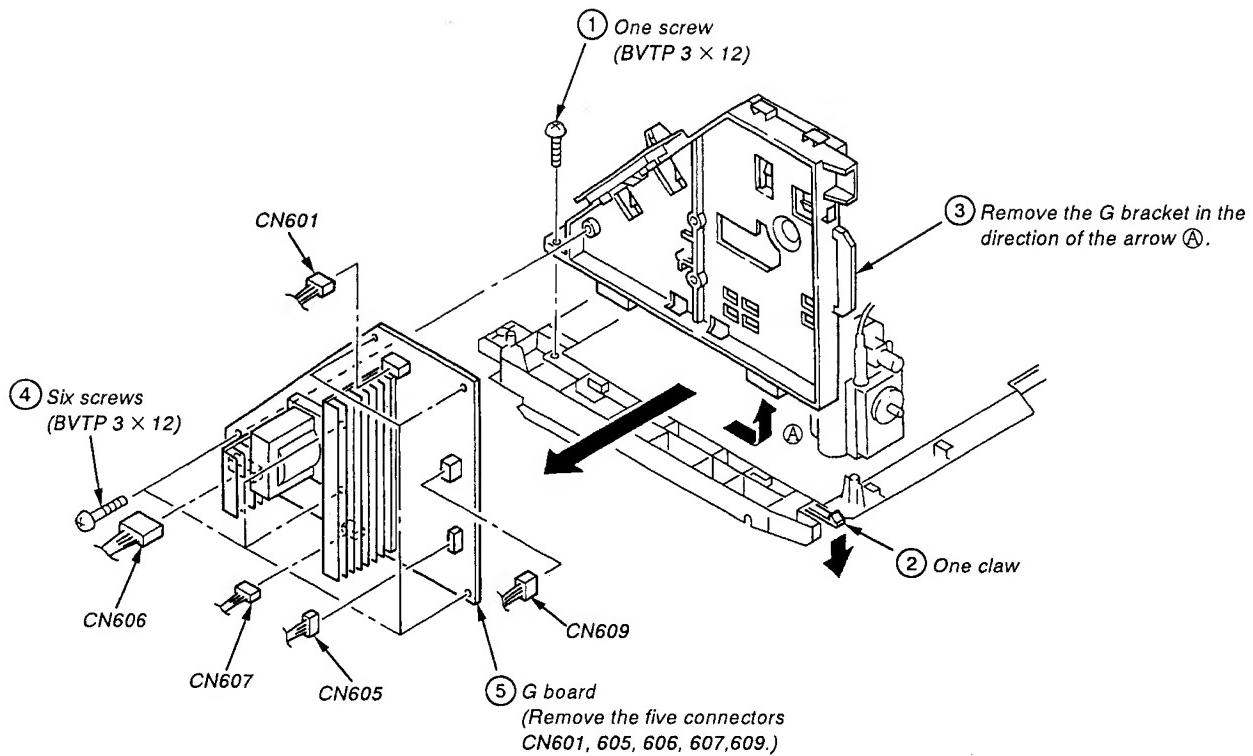
## 2-6. UJ BOARD REMOVAL



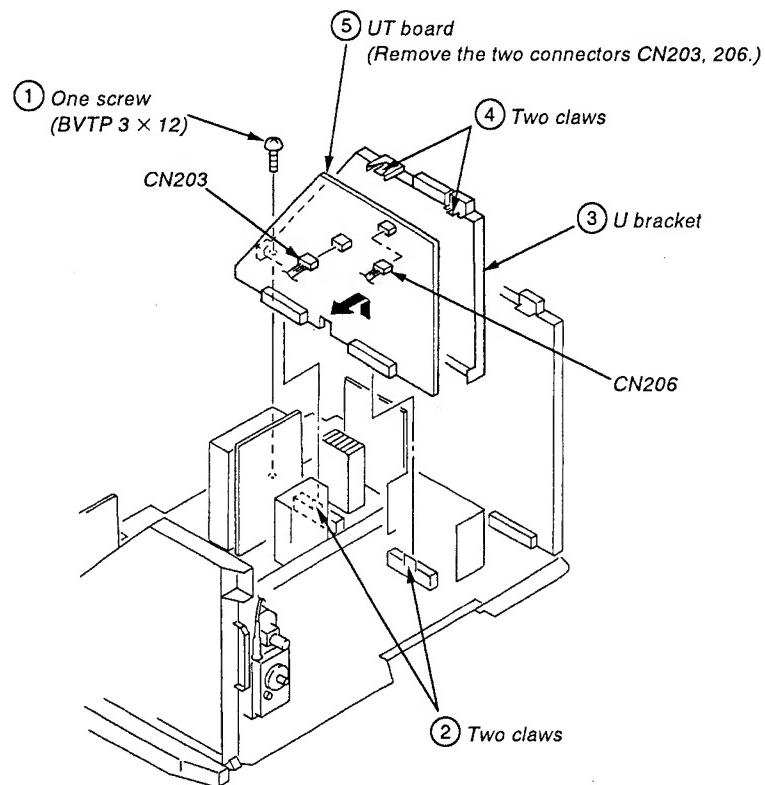
## 2-7. G1 BOARD REMOVAL



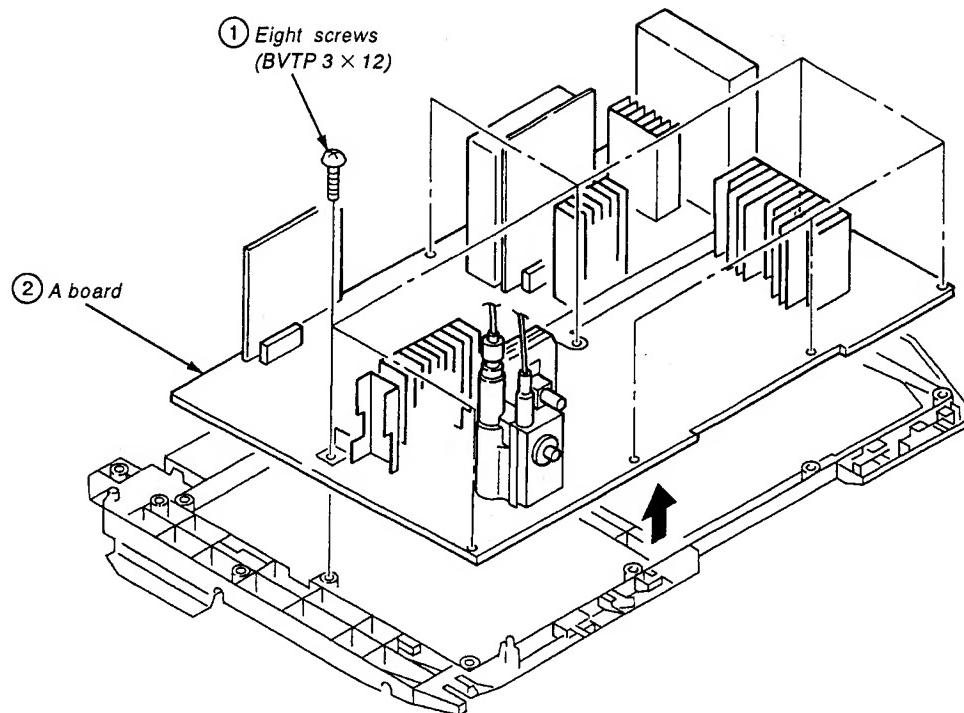
## 2-8. G BOARD REMOVAL



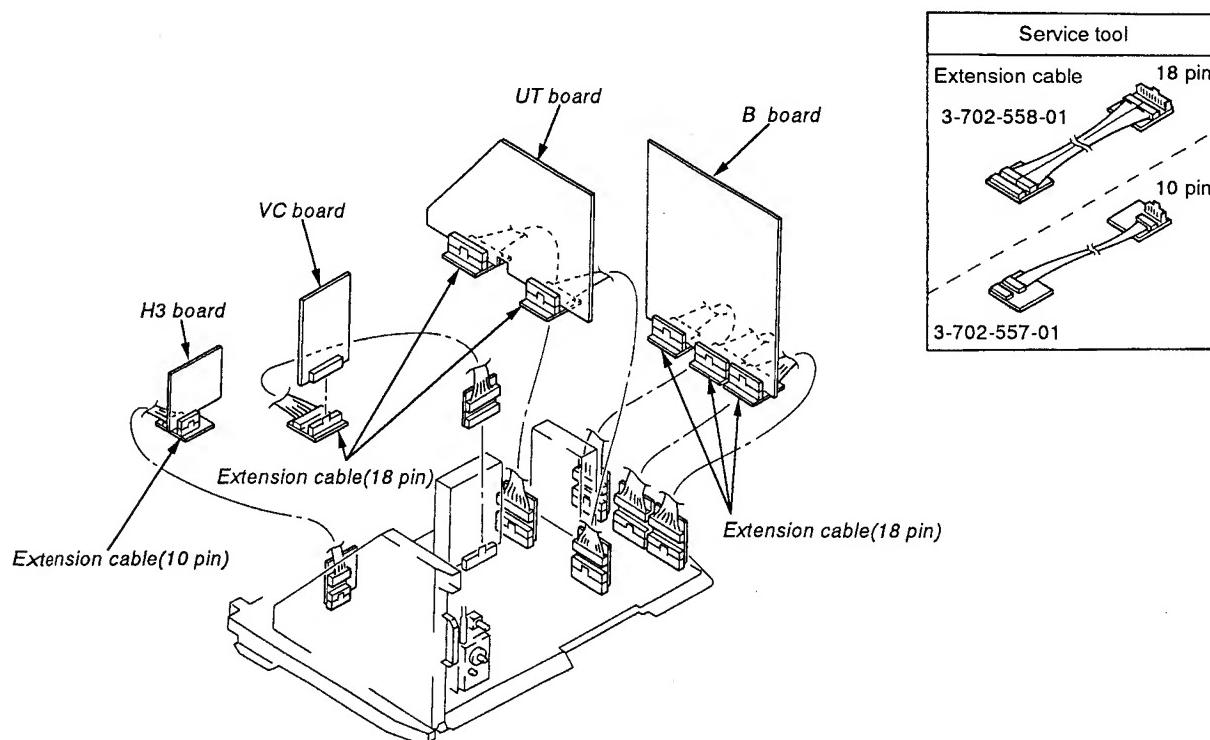
## 2-9. UT BOARD REMOVAL



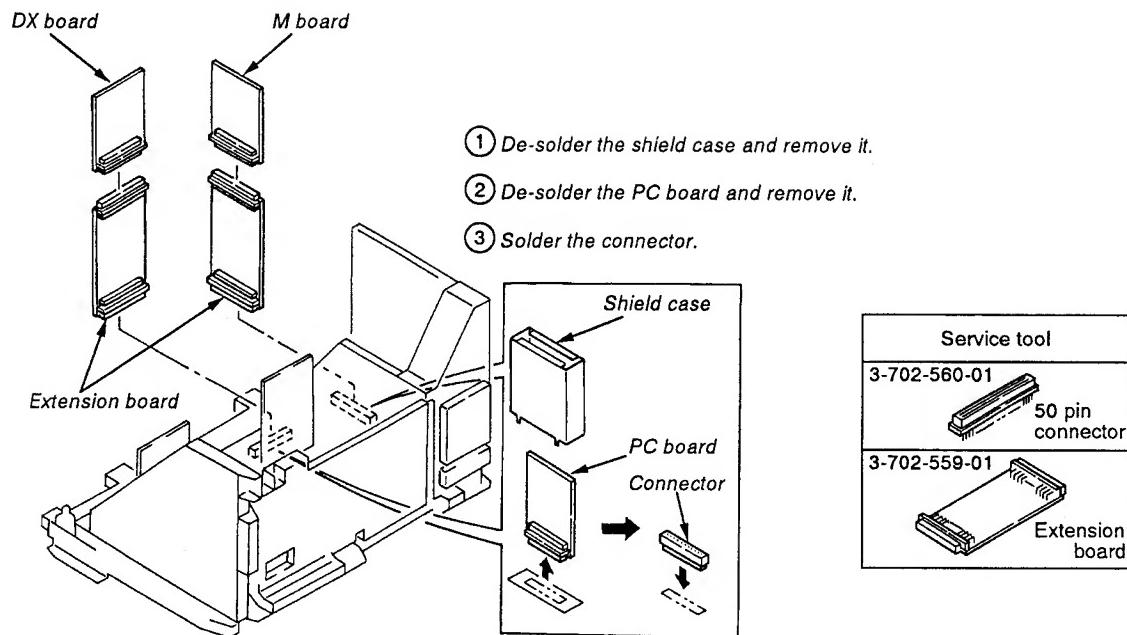
## 2-10. A BOARD REMOVAL



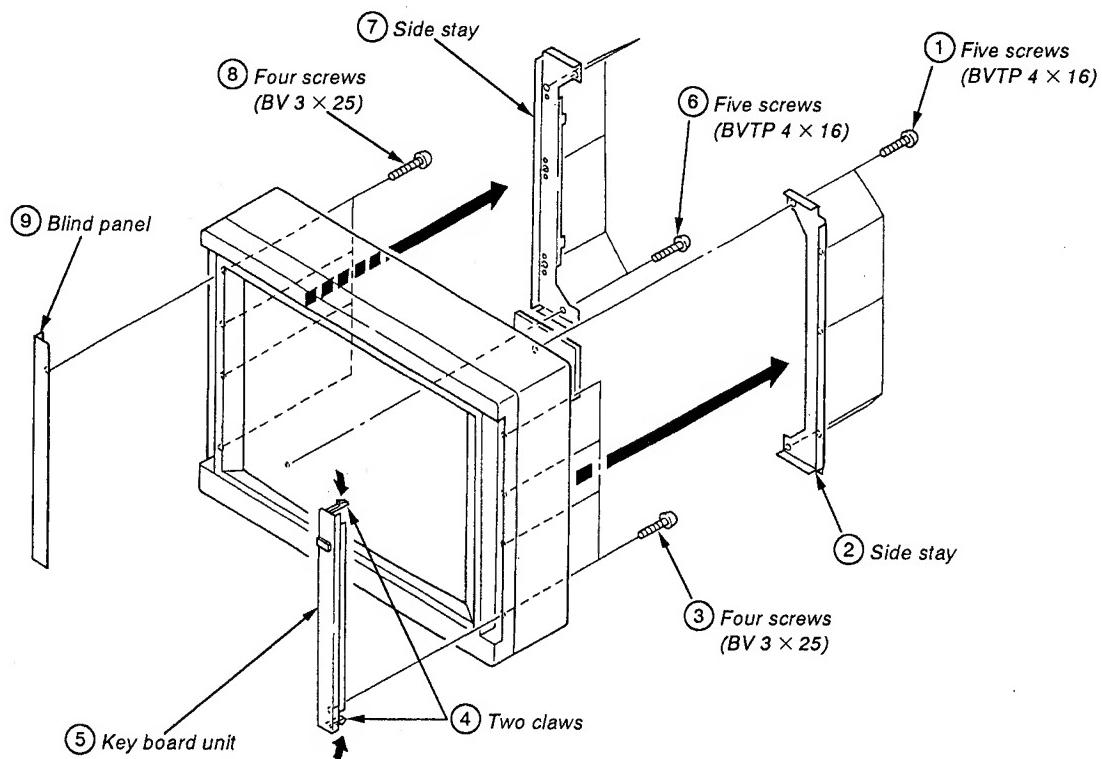
## 2-11. EXTENSION CABLE



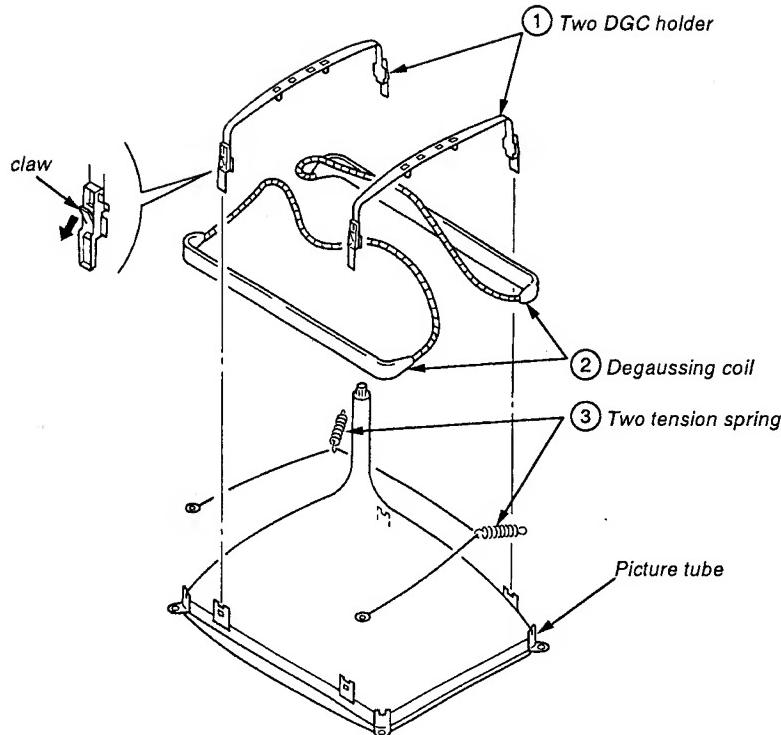
## 2-12. EXTENSION BOARD



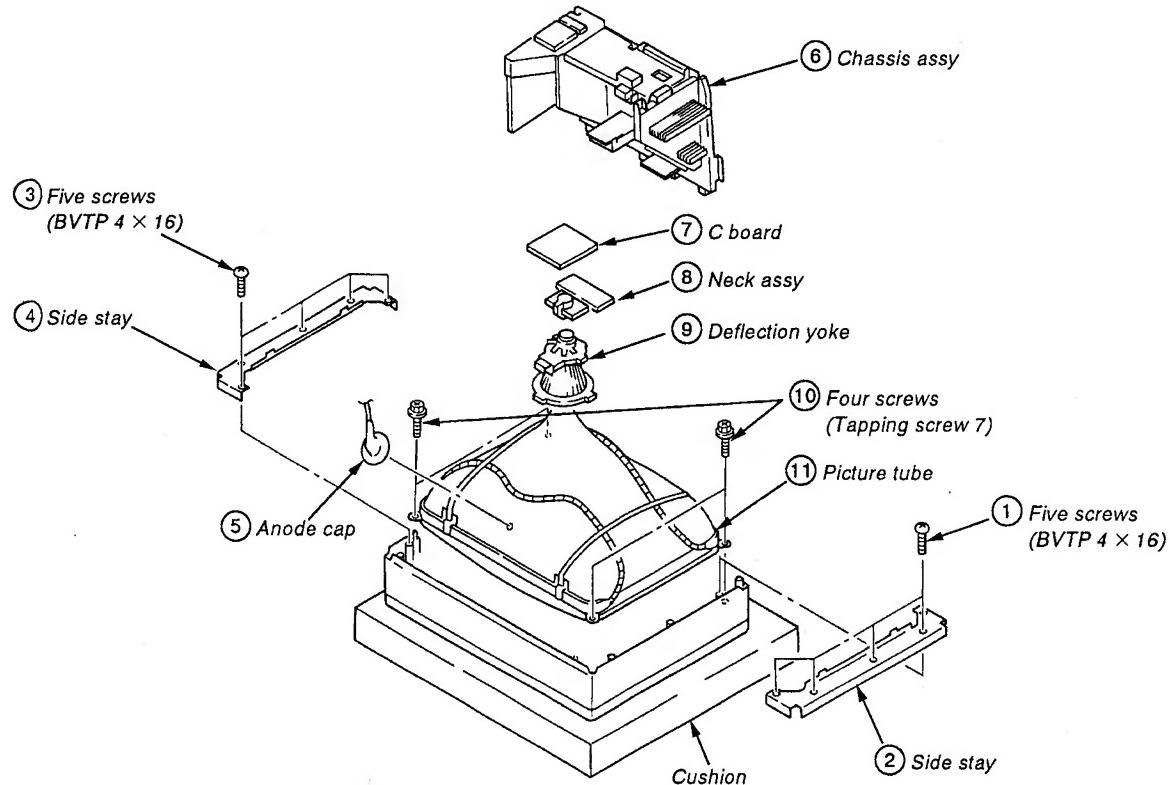
## 2-13. KEY BOARD UNIT AND BLIND PANEL REMOVAL



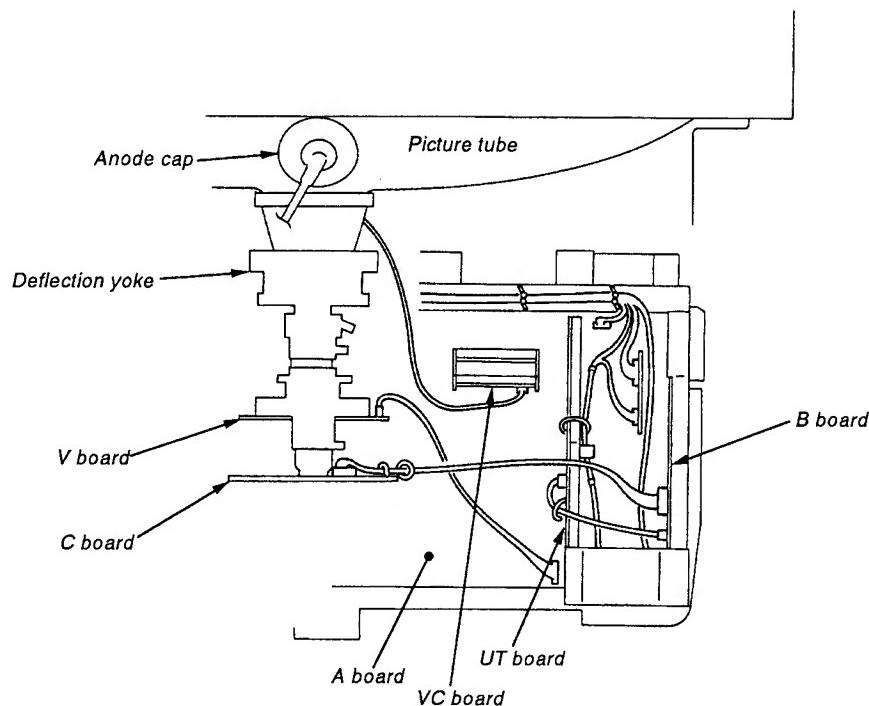
## 2-14. DEGAUSSING COIL REMOVAL



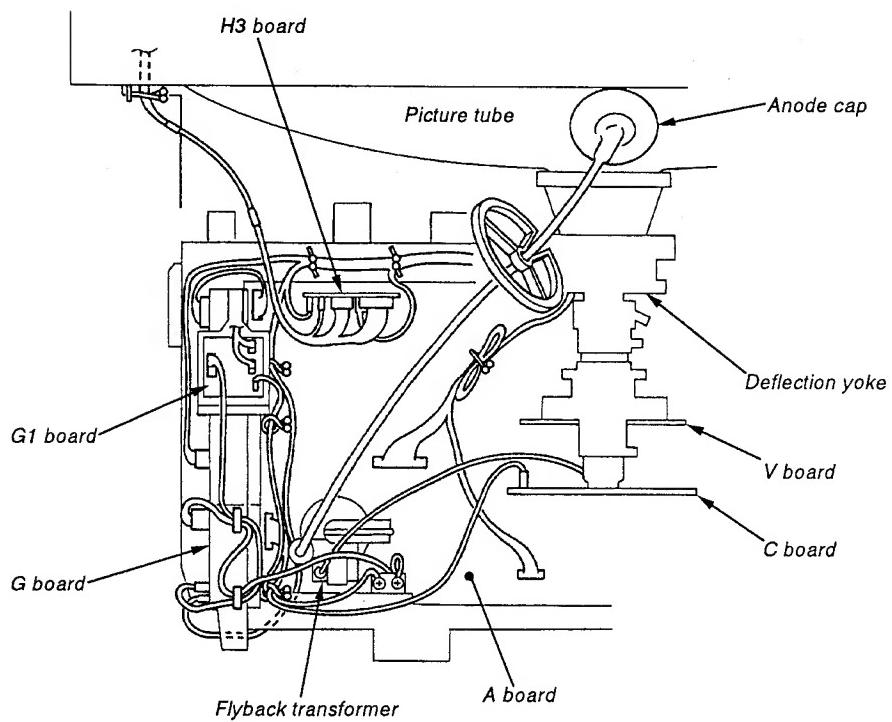
## 2-15. PICTURE TUBE REMOVAL



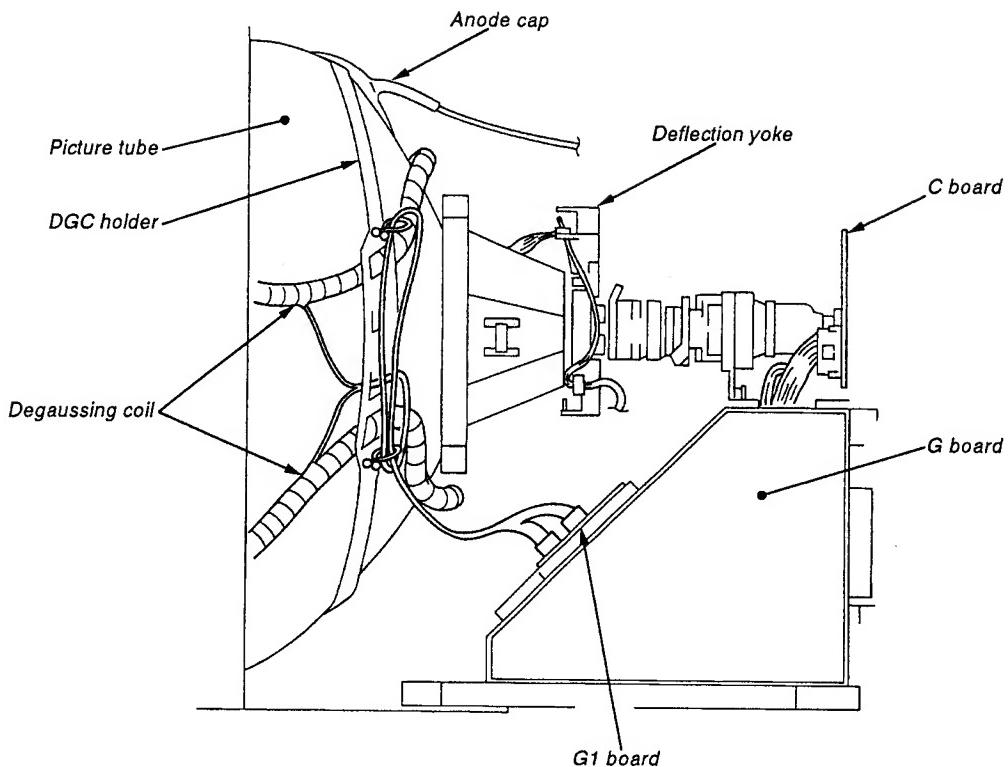
2-16. HARNESS LOCATION  
(1)TOP VIEW(RIGHT)



(2)TOP VIEW(LEFT)



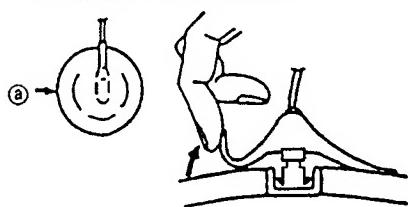
(3) LEFT SIDE VIEW



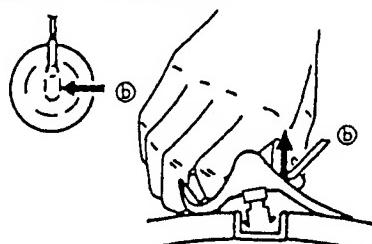
• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield, or carbon painted on the CRT, after removing the anode.

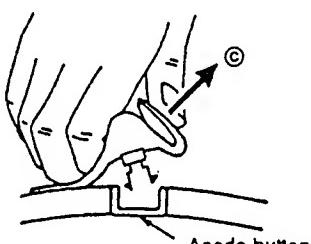
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ①.



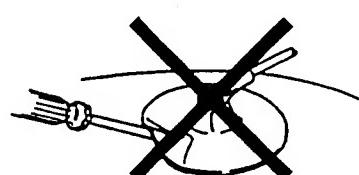
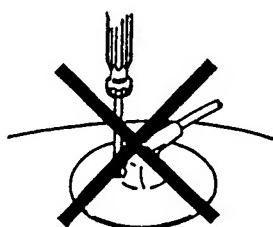
② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Don't hurt the surface of anode-caps with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !  
A metal fitting called as shatter-hook terminal is built in the rubber.
- ③ Don't turn the foot of rubber over hardly !  
The shatter-hook terminal will stick out or hurt the rubber.



## SECTION 3 SET-UP ADJUSTMENTS

- Carry out the following adjustments when readjustment is required or when attaching a new picture tube.
  - These adjustments should be carried out at rated power supply voltage unless otherwise specified.
- Controls and switches should be set in standard position as listed below unless otherwise specified.
- |                 |          |
|-----------------|----------|
| Contrast .....  | Standard |
| Brightness..... | Standard |

Carry out adjustments in the following order.

- 3-1 Landing adjustment (Beam Landing)
- 3-2 Convergence adjustment
- 3-3 Focus adjustment
- 3-4 White balance adjustment

Note: Instruments used

1. Color bar/pattern generator
2. Degausser

### 3-1. BEAM LANDING

#### Preparations

1. Face the picture tube screen of the set in an eastward or westward direction to reduce the influence of earth magnetism.
2. Turn the power switch on the set to ON to carry out demagnetizing.

#### (1) Adjustment of the Y separation axis correction magnet.

1. Receive the image of the crosshatch.
2. Adjust the picture to minimum and the brightness to standard.
3. Secure the neck assembly to the position shown in the figure (Fig. 3-2).
4. Move the DY until it comes in contact with the CRT and set it in a upright position.
5. Open and close the Y separation axis correction magnet on the neck assembly until there is up-down symmetry and adjust so that the upper and lower pins are symmetrical.
6. Return the DY to the original position.

#### (2) Landing

1. Receive the all-white signal of the pattern generator, adjusting the picture to maximum and the brightness to a level that is easy to view.
2. Carry out rough adjustment of the focus and horizontal convergence.
3. Loosen the retention device on the deflection yoke and adjust the purity adjustment knob in the center (Fig. 3-1).
4. Switch the pattern generator to the single color green.
5. Slide the deflection yoke to the back so that the center of the screen is green and use the purity magnet to achieve left-right symmetry (Fig. 3-3).
6. Slide the deflection yoke to the front so that the entire screen is the single color green.
7. Switch the pattern generator to the single colors red and blue and confirm that landing has been obtained.
8. Secure the retention device once the deflection yoke position has been determined.
9. If landing has not been obtained in the corner section, use the magnet to make corrections (Fig. 3-4).

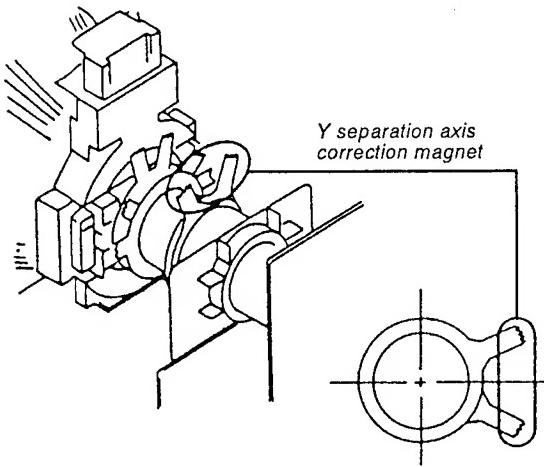
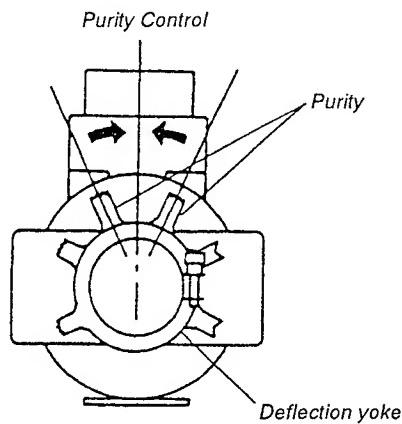


Fig. 3-1



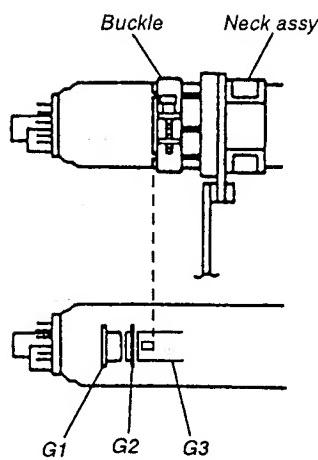


Fig. 3-2

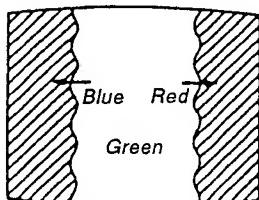


Fig. 3-3

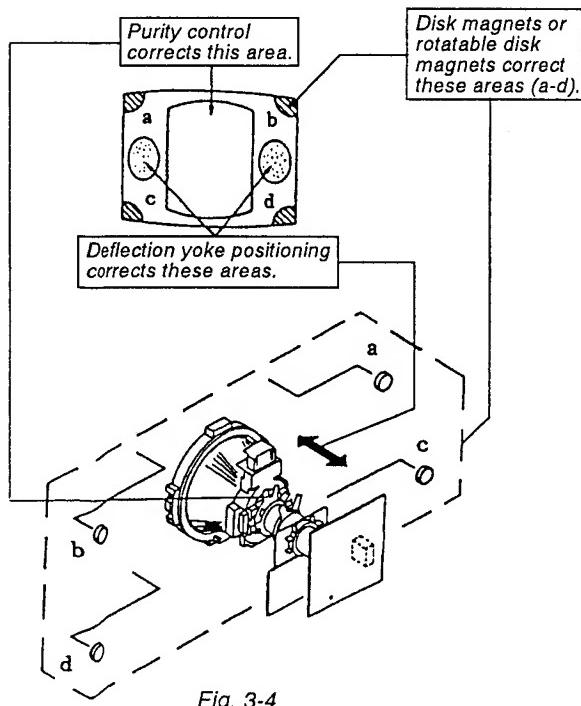


Fig. 3-4

### 3-2. CONVERGENCE ADJUSTMENT

#### (1) Screen Center Convergence Adjustment (Static Convergence)

1. Receive the dot signal and adjust the picture to standard.
2. Use the horizontal static convergence knob to arrange the red, green and blue dots on top of each other in a horizontal direction in screen center.
3. Use the vertical static convergence magnet to arrange the red, green and blue dots on top of each other in a vertical direction in screen center.

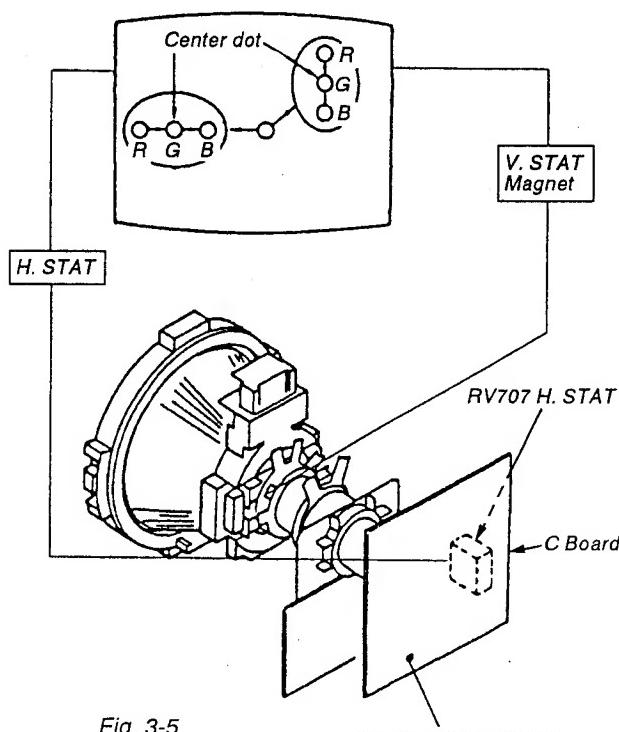


Fig. 3-5

※ If the dots do not become arranged in a horizontal direction within the adjustment range for the horizontal static convergence knob, simultaneously use the vertical static convergence magnet to adjust while taking tracking.

(Incline the vertical static convergence and adjust by opening and closing the knob.)

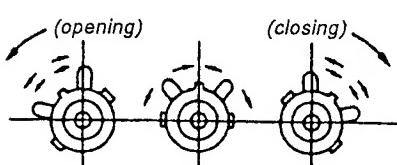


Fig. 3-6

4. Movement of the red, green and blue dots by inclination and opening/closing of the vertical static convergence magnet.

(1) Movement when opening and closing the vertical static convergence magnet.

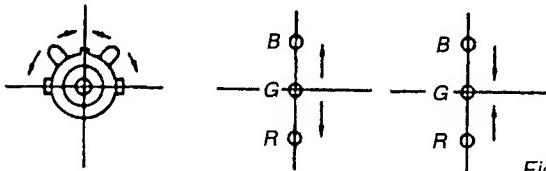


Fig. 3-7

(2) Movement when inclining the vertical static convergence magnet in a counter-clockwise direction.



Fig. 3-8

(3) Movement when inclining the vertical static convergence magnet in a clockwise direction.

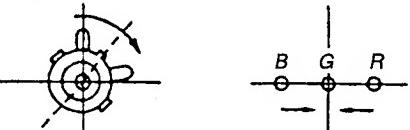


Fig. 3-9

(4) Movement when inclining the vertical static convergence magnet and opening and closing.

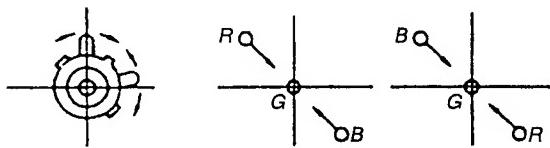


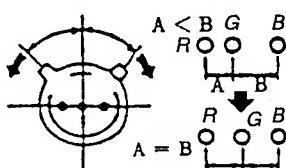
Fig. 3-10

\* If the blue dots do not line up in relation to the red and green dots, correct with the BMC (6-pole) magnet.

5. Correction of HMC (horizontal misconvergence) and VMC (vertical misconvergence) with the BMC (6-pole) magnet.

(1) HMC correction with the BMC (6-pole) magnet and movement of the electron beam.

HMC correction (A)



HMC correction (B)

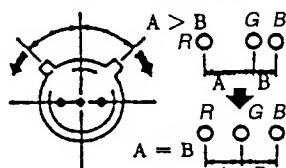
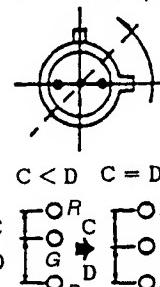


Fig. 3-11

(2) VMC correction with the BMC (6-pole) magnet and movement of the electron beam.

VMC correction (A)



VMC correction (B)

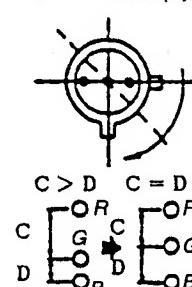


Fig. 3-12

Position of the knob

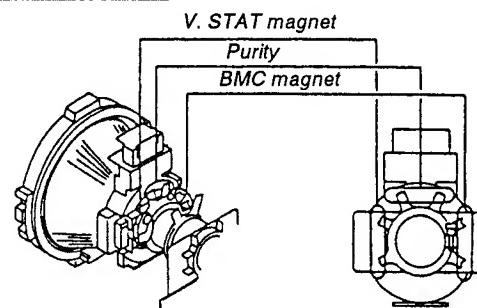


Fig. 3-13

## (2) Convergence Adjustment on the Screen Periphery (Dynamic Convergence)

1. Use the horizontal static convergence VR (H.STAT) to adjust the convergence in a horizontal direction in screen center.

2. Change to the service mode and carry out the following dynamic convergence adjustments.

(Service Mode : Use the remote control to press the following buttons in succession : [Screen display] → [CH5] → [Volume +] → [Power].

please refer to page 27 for selecting the item on how to adjust the dynamic convergence.

	Adjustment Items	Adjustment Range
01	DC SHIFT (H. STAT)	000-063
02	H. AMP	000-063
03	H. TILT	000-063
04	UP. Y. BOW	000-063
05	UP. C. BOW	000-063
06	UP. TILT	000-063
07	LO. Y. BOW	000-063
08	LO. C. BOW	000-063
09	LO. TILT	000-063

3. Press [1] and [4] on the remote control to select the items.  
Adjust with the [3] and [6] buttons.

1) Y.BOW adjustment on the upper side of the screen  
(UP.Y.BOW).

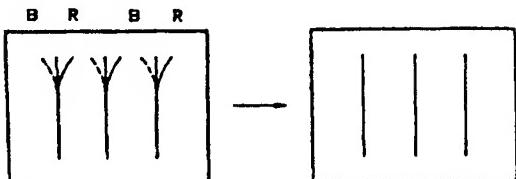


Fig. 3-14

2) Y.BOW adjustment on the lower side of the screen  
(LO.Y.BOW)

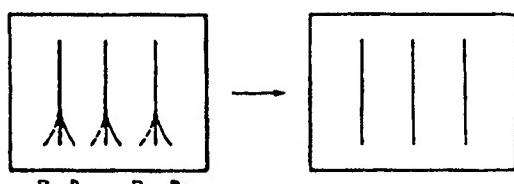


Fig. 3-15

3) H.AMP adjustment (HAMP).

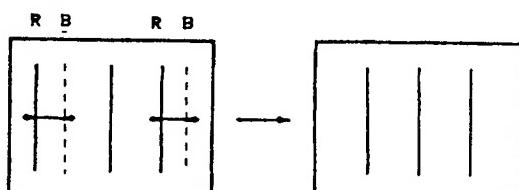


Fig. 3-16

4) TILT adjustment (HTLT)

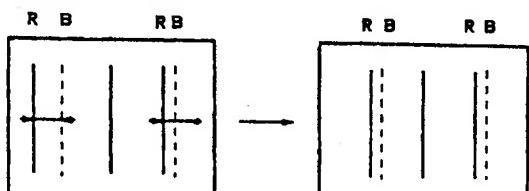


Fig. 3-17

5) C.BOW adjustment on the upper side of the screen  
(UP.C.BOW).

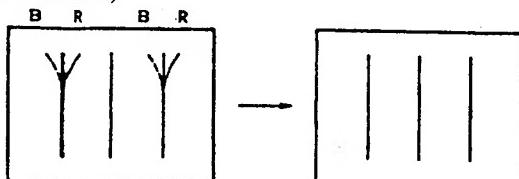


Fig. 3-18

6) TILT adjustment on the upper side of the screen  
(UP.TILT).

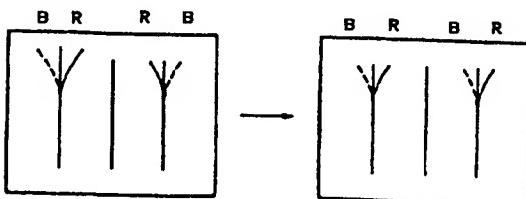


Fig. 3-19

7) C.BOW adjustment on the lower side of the screen  
(LO.C.BOW).

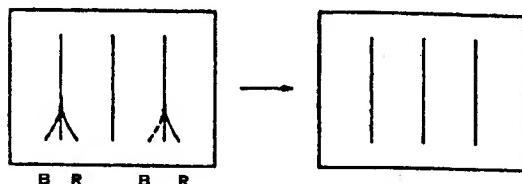


Fig. 3-20

8) TILT adjustment on the lower side of the screen  
(LO.TILT).

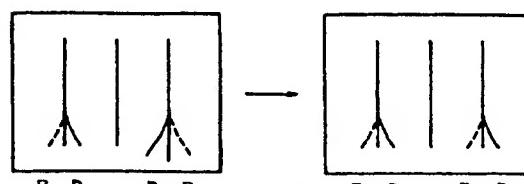


Fig. 3-21

4. If there is a misconvergence in the corner section of the screen, use permalloy to adjust.

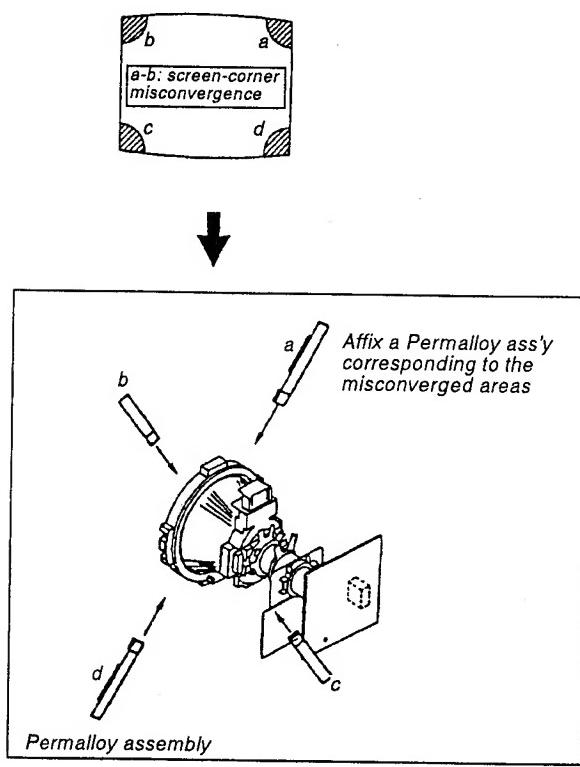


Fig. 3-22

### 3-3. FOCUS ADJUSTMENT

1. Receive a broadcast.
2. Adjust the picture to standard condition.
3. Adjust the focus volume of the flyback transformer until the focus is ideal in the center of the screen. If the focus is adjusted only to the center of the screen, a magenta ring will appear on the screen. In such a case adjust the focus so that is even on all parts of the screen.

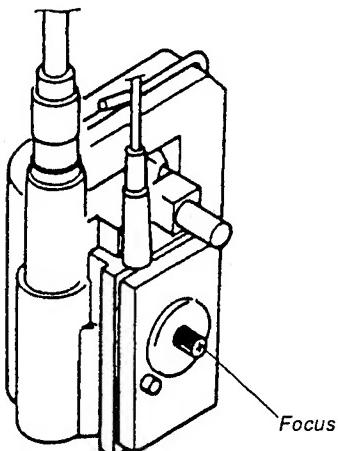


Fig. 3-23

### 3-4. SCREEN (G2) WHITE BALANCE ADJUSTMENT

#### G2 Adjustment (RV710)

1. Adjust the picture and brightness to standard.
2. Connect an oscilloscope to the cathode.
3. Remove CN305 connect pin 1, 2, 3 to an external power supply and adjust the cathode voltage to  $176 \pm 2V$ .
4. Adjust RV710 (G2) by adjusting to a position that is just prior to disappearance of the flyback line on the screen.

#### WHITE BALANCE ADJUSTMENT

(Caution ; Refer to Page 38)

1. Input the gray scale to Line 1 and select 9300 K on the screen menu.
2. Set so that the user control contrast is minimum and the brightness is reset.
3. Set in the service mode and adjust so that the 0 IRE of the gray scale is cut off and 10 IRE is slightly bright at a brightness of 01.
4. Change the signal to the all-white signal and change the signal level so that the center brightness is 10 nit.

**Note :** If fine adjustments of the brightness are not possible with the signal level, use contrast on the user control to adjust.

5. Use the G cutoff and B cutoff to adjust so that the color temperature is  $9300K+8 MPCD \pm 2JND$ .
6. Set the all-white signal level to 100 IRE.
7. Use the G drive and B drive to adjust so that the color temperature is  $9300K+8 MPCD \pm 2JND$ .
8. Adjust the brightness to 10 nit and confirm that the color temperature is  $9300K+8 MPCD \pm 2JND$ . Repeat steps 3 to 7 to adjust when necessary.
9. Return to step (1) and check whether the brightness has altered. If so, repeat steps 1-8 to adjust.

10. Input the gray signal of the Y color difference signal to Line 3.
11. Change the signal level so that the center brightness is 10 nit.
12. Adjust the G cutoff and B cutoff so that the color temperature is  $9300K+8 MPCD \pm 2JND$ .
13. Change the input to the RGB mode of Line 3 and input the RGB gray signal.
14. Change the signal level so that the brightness in screen center is 10 nit.
15. Adjust the G cutoff and B cutoff so that the color temperature is  $900K+8 MPCD \pm 2JND$ .
16. Save the adjustment data.
17. Change the input to Line 1, change the signal to the gray scale and go to the 6500K mode on the screen menu.
18. Carry out the same adjustments as in steps 2 to 8 so that the color temperature is  $6500K+8 MPCD \pm 2JND$ .
19. Save the adjustment data.
20. Change the input to the component mode of Line 3 and input the gray signal of the Y color difference signal.
21. Carry out exactly the same adjustments as in 11 and 12 so that the color temperature is  $6500K+8 MPCD \pm 2JND$ .
22. Save the adjustment data.
23. Change the input to the RGB mode of Line 3 and input the RGB gray signal.
24. Carry out exactly the same adjustments as in 14 and 15 so that the color temperature is  $6500K+8 MPCD \pm 2JND$ .
25. Save the adjustment data.
26. Change the input to Line 1, change the signal to the gray scale and go to the 3200K mode on the screen menu.
27. Carry out exactly the same adjustments as in steps 2 to 8 so that the color temperature is  $3200K \pm 2JND$ .
28. Save the adjustment data.
29. Change the input to the component mode of Line 3 and input the gray signal of the Y color difference signal.
30. Carry out exactly the same adjustments as in steps 11 and 12 so that the color temperature is  $3200K \pm 2JND$ .
31. Save the adjustment data.
32. Change the input to the RGB mode of Line 3 and input the gray signal of RGB.
33. Carry out exactly the same adjustments as in steps 14 and 15 so that the color temperature is  $3200K \pm 2JND$ .
34. Save the adjustment data.
35. Input a window signal of 100 IRE from Line 1 and go to the 9300K mode. In addition, set the contrast and brightness of the user control to the reset state.
36. Adjust with the picture control until the brightness at the center of the tube is  $200 \pm 10$  nit.
37. Save the adjustment data.
38. Change to the 6500K mode.
39. Adjust the picture adjustment so that the brightness at the center of the tube is  $200 \pm 10$  nit.
40. Save the adjustment data.
41. Change to the 3200K mode.
42. Adjust the picture adjustment so that the brightness at the center of the tube is  $140 \pm 10$  nit.
43. Save the adjustment data.

## SECTION 4

### SAFETY RELATED ADJUSTMENTS

#### CONFIRMATION OF HOLD-DOWN( R583)

Be sure to carry out the following adjustments after replacing the following parts (indicated with a  sign in the circuit chart).

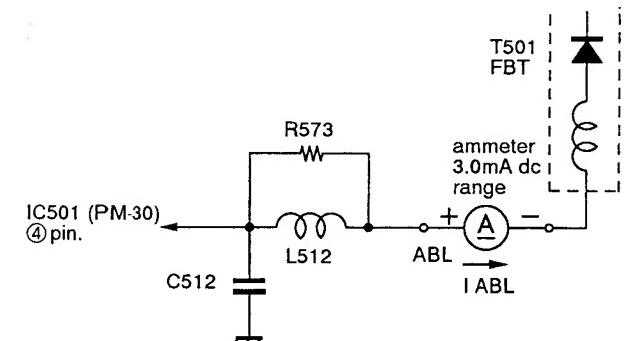
C574, D515, IC501, IC620, Q517, Q518, R578, R580, R581, R582, R583, R584, R585, T504

(1) Confirmation of B+ line.

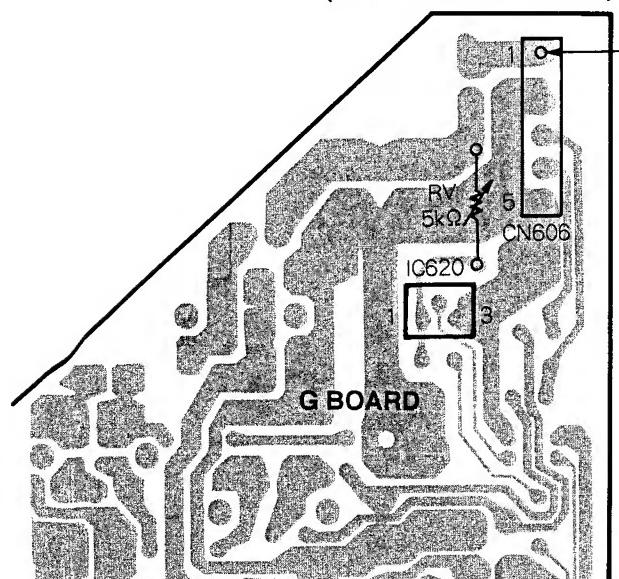
1. Input a voltage of  $130 \pm 0.1$  VAC and set picture and brightness to minimum level.
2. Confirm that the voltage on the B+ line is 135.6 VDC or less when receiving the dot signal.

(2) Confirmation of hold-down operation

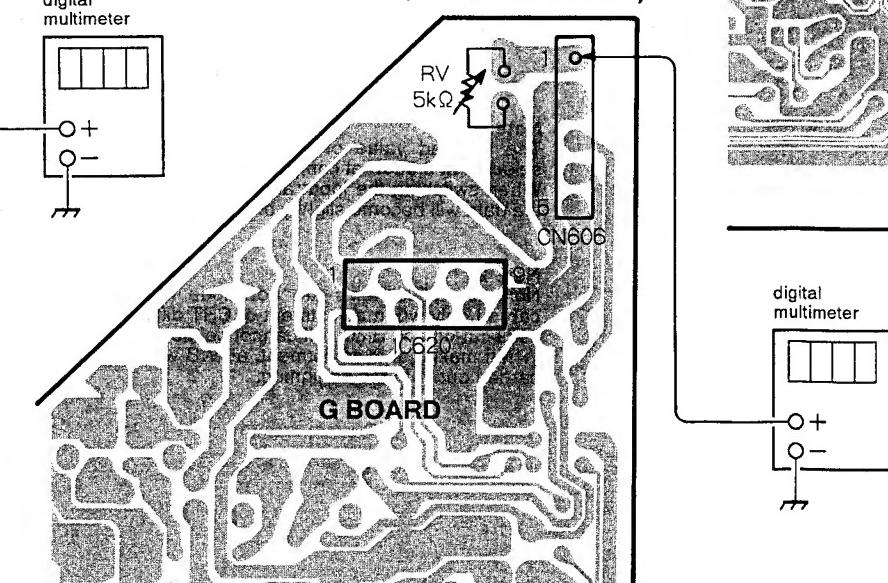
1. Set the power source voltage to AC120V and receive the all-white signal.
2. Adjust the picture and the brightness so that IABL is  $1610 \pm 50$   $\mu$ A.
3. Confirm that the hold-down circuit operates and the raster disappears at a voltage of DC 147.9V or less when applying voltage from external DC power source to the ② pin of IC501.



(US, Canadian Model)



(AEP, AUS Model)



#### CONFIRMATION OF HOLD-DOWN( R581)

Be sure to carry out the following adjustments after replacing the following parts (indicated with a  sign in the circuit chart).

C574, D515, IC501, IC620, Q517, Q518, R578, R580, R581, R582, R583, R584, R585, T504

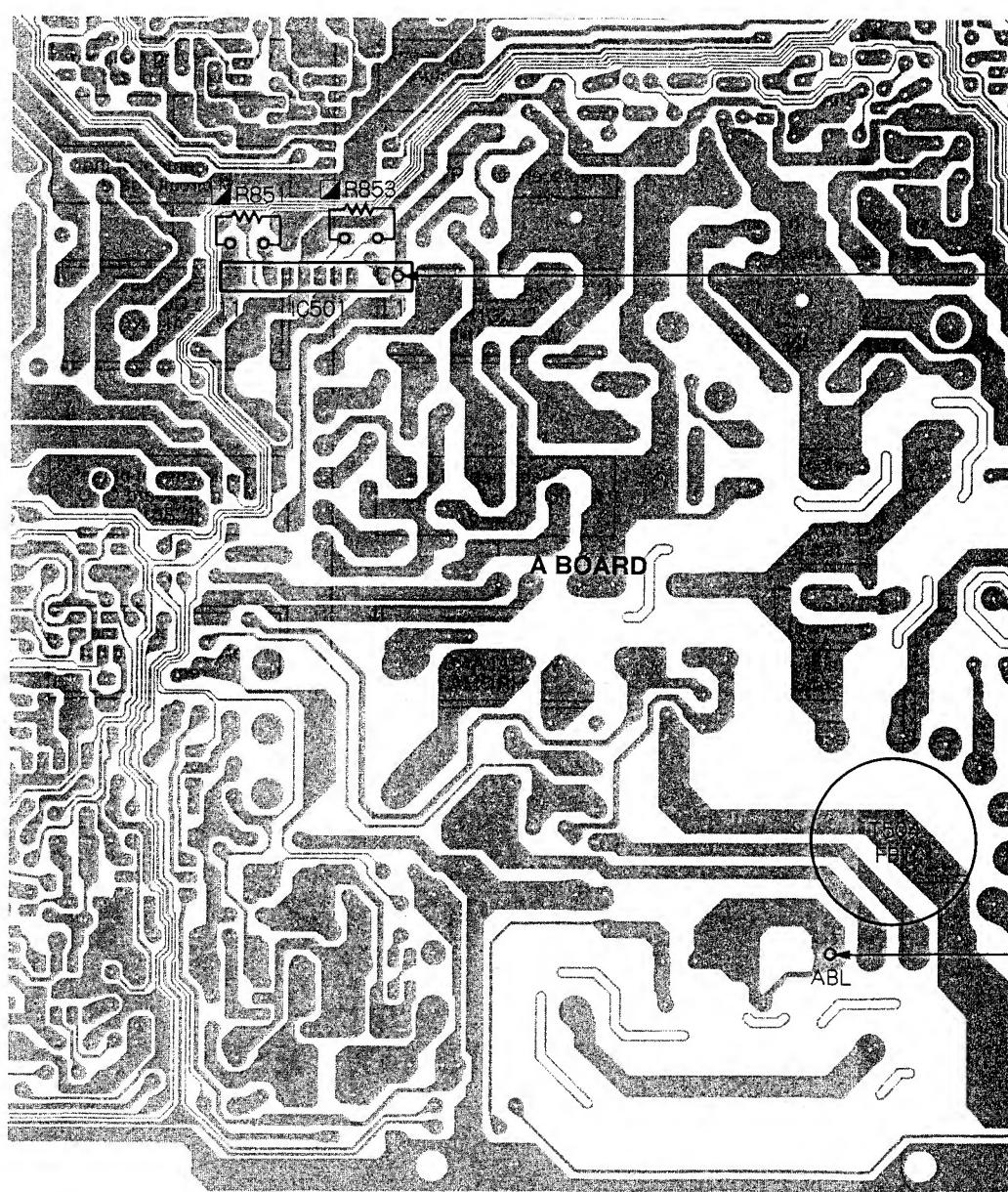
(1) Tertiary winding detection

1. Set the power source voltage to AC120V and receive the all-white signal.
2. Adjust the picture and brightness so that IABL is  $1610 \pm 50$   $\mu$ A.
3. Confirm that the hold-down circuit operates and the raster disappears at a voltage of DC 147.9V or less when applying voltage from external DC power source to the ⑪ pin of IC501 on substrate A.

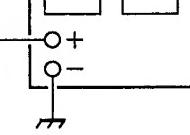
#### CONFIRMING THE +B VOLTAGE

The following confirmations must be carried out when replacing IC620.

1. Input  $AC130 \pm 0.1$  V 60 Hz as the input voltage to the power source section.
2. Receive the dot signal and set CONT and BRT to MIN. At this time the voltage on the +B line should be 135.6 V or less.



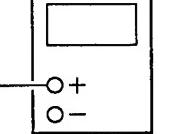
regulated-dc power supply



digital multimeter



ammeter 3m A dc range



## SECTION 5 ELECTRIC ADJUSTMENT IN THE SERVICE MODE

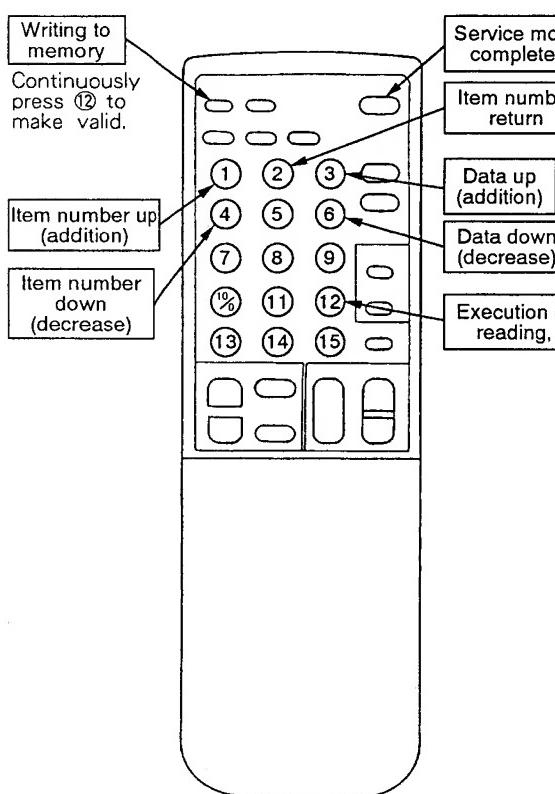
Electric adjustment can be carried out with the remote commander provided with the set (RM-854).

The places to be adjusted in the service mode are as follows.

- RESET U MEN.....All user controls shall be preset.
- GEO DEST.....Adjustment of screen distortion
- D CONV.....Convergence adjustment
- W BALANCE.....White balance adjustment
- CHROMA.....Adjustment of the components' primary color matrix

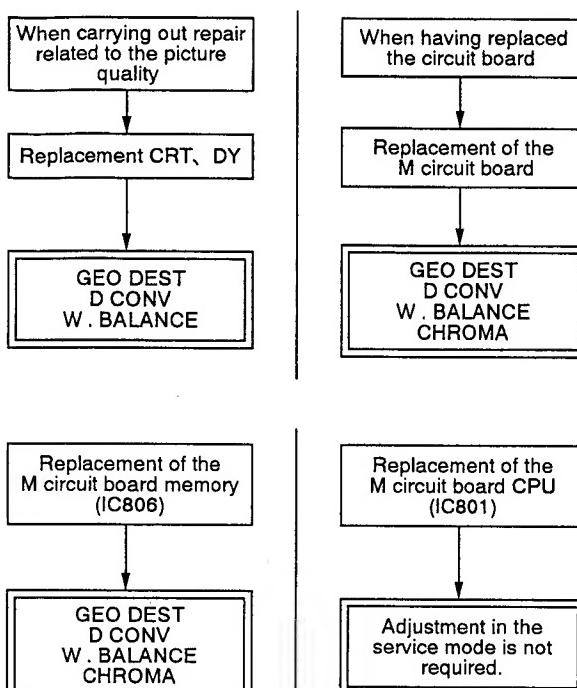
When entering the service mode, the set shall be in standby condition, and each switch shall be pressed in the order of 「Screen display → 5 → VOL+ → POWER」.

### FUNCTIONS OF THE COMMANDER IN THE SERVICE MODE



#### • WHEN ADJUSTMENT IS REQUIRED IN THE SERVICE MODE

When carrying out the following repairs, please be aware that adjustment in the service mode is required.



RESET U MEN		60Hz	50Hz	RESET U MEN OK YES : 5+12 RETURN MENU : 2
		4 : 3	16 : 9	
			9300	01 DC SHIFT : 032 000-063
			6500	02 H AMP : 058 000-063
			3200	03 H TRPZ : 025 000-063
				04 V LINEGAIN : 006 000-015
				05 V LINE BAL : 008 000-015
				06 CONT BRTMAX HV COMP V : 004 000-007
				07 CONT BRT MIN HV COMP V : 004 000-007
				08 H SIZE : 032 000-063
				09 H CENT : 046 000-063
				10 PIN AMP : 035 000-063
				11 TILT : 009 000-015
				12 UPCO PIN : 014 000-015
				13 LO CO PIN : 009 000-015
				14 V ANGLE : 008 000-015
				15 V BOW : 008 000-015
				16 CONT. BRT MAX HV COMPH : 007 000-007
				17 CONT. BRT MIN HV COMPH : 007 000-007

Standard value : XXX XXX → XXX  
Range of data variation

Note 1  
The standard value of the W balance is the data selected at 6,500K at composite input.  
When switching the input and the color temperature, the data will become slightly different.

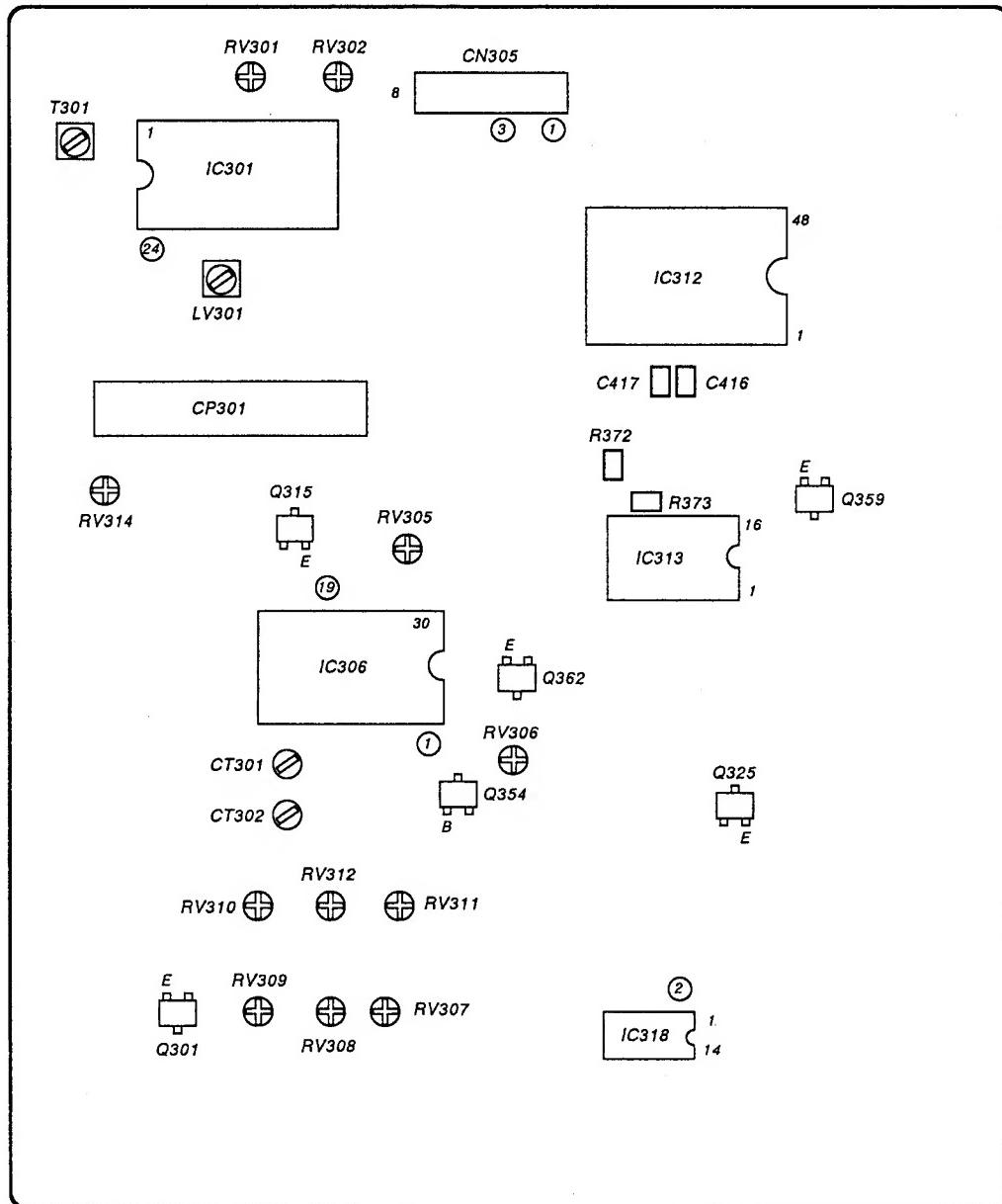
Note 2  
Normally adjustments are not made (adjustment is carried only when adjustment of CRT differences such as G cut-off and B cut-off cannot be made).  
When making this adjustment, all WB will have to be carried out from the beginning.

Setting the standard Color temperature of the monitor.  
(When resetting with User Menu 3, the color temperature will be reset.)

## SECTION 6 CIRCUIT ADJUSTMENTS

### 6-1. B BOARD ADJUSTMENTS

B BOARD – CONDUCTOR SIDE –



- Call up the set menu and reset all the user control functions.
- Connect the oscilloscope between UT board CN205 Pin ③ and ground and adjust RV201 so that the Y output is  $2.0 \pm 0.1$  Vp-p (100% white signal).
- Connect the oscilloscope between UT board CN205 Pin 1 and ground and adjust RV202 so that the Burst output is  $200 \pm 10$  mVp-p (100% white signal)
- Primary color matrix adjustment
  - Input a component 75% color bar R-Y and sync signal to Line 3.
  - Set service personnel mode.

- Connect the emitter of Q359 to +12V and the emitter of Q315 to ground.
- Connect the oscilloscope between CN305 Pin ③ and ground and adjust with the remote controller so that B-Out is 50 mVp-p max.



Fig. 6-1

- 4-5. Return Q359 and Q315 to their original connections.  
 4-6. Also input a B-Y/Y signal to Line 3. Adjust with the remote controller so that for the waveform at CN305 Pin ③ (B-Out), A=B.

5. Chroma decoder adjustment

- 5-1. Input NTSC color bars from Line 1.  
 5-2. Connect the oscilloscope to the emitter of Q325 and the emitter of Q326.  
 5-3. Connect the base of Q354 and ground.  
 5-4. Adjust RV306 so that the pulse position phase is as shown in the figure below.

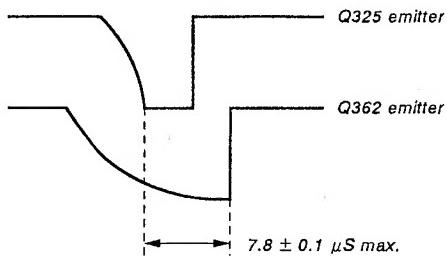


Fig. 6-2

- 5-5. Input an all-white NTSC signal to Line 1.  
 5-6. Return Q354 to its original connections.  
 5-7. Use the circuit in the figure below to supply +12 V to IC306 Pin ①.

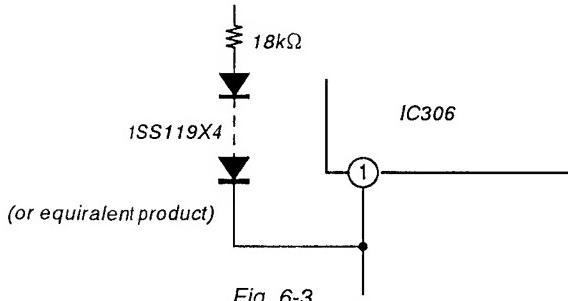


Fig. 6-3

- 5-8. Connect the emitter of Q301 to ground.  
 5-9. Connect IC318 Pin ② to ground.  
 5-10. Connect the frequency counter to IC306 Pin ⑯ and adjust CT301 so that the frequency is  $3579545 \pm 30$  Hz.  
 5-11. Convert the signal to an all-white PAL signal.  
 5-12. Check that IC318 Pin ② is +5V.  
 5-13. Connect the frequency counter to IC306 Pin ⑯ and adjust CT302 so that the frequency is  $4433619 \pm 30$  Hz.

6. NTSC Hue/Color Adjustment

- 6-1. Input color bars including only the burst and R-Y components from Line 1.

- 6-2. Connect the oscilloscope to the C417+ side and adjust RV308 so that the waveform is as shown in the figure below.

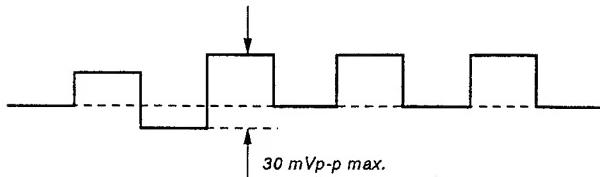


Fig. 6-4

- 6-3. Change the signal to NTSC 75% full color bars.  
 6-4. Connect the oscilloscope between C417 and R372 and adjust RV311 so that the waveform is as below.

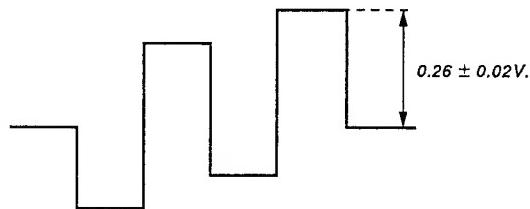


Fig. 6-5

- 6-5. Connect the oscilloscope between C416 and R373 and adjust RV305 so that the waveform is as below.

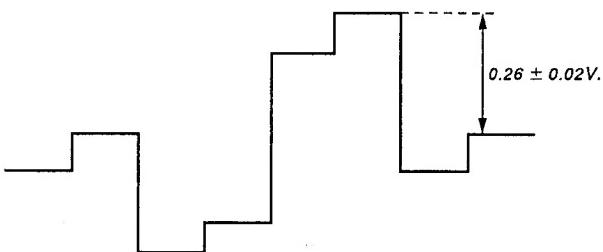


Fig. 6-6

- 6-6. Connect the oscilloscope to CN305 Pin ③ and adjust RV311 so that the waveform is as below.

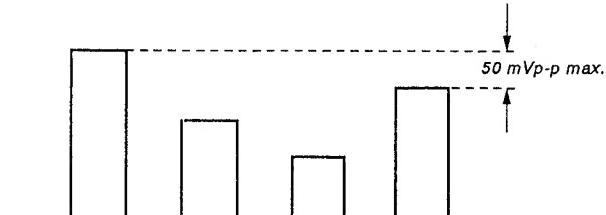


Fig. 6-7

- 6-7. Switch the signal to 4.43 NTSC 75% color bars.

6-8. Connect the oscilloscope to CN305 Pin ③ . Secure the tracking and adjust with RV307 and RV310 so that the heads of the waveforms line up.

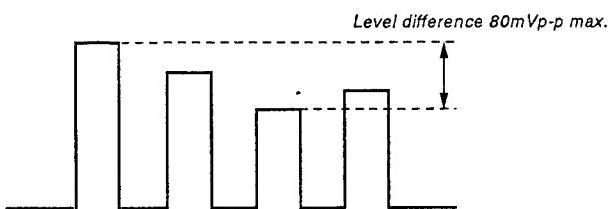


Fig. 6-8

#### 7. PAL Color Demodulation Adjustment

7-1. Input the PAL special color bars from Line 1.

7-2. Connect the oscilloscope to C416 and R373 and adjust RV309 so that the anti-PAL signal is as in the figure below.

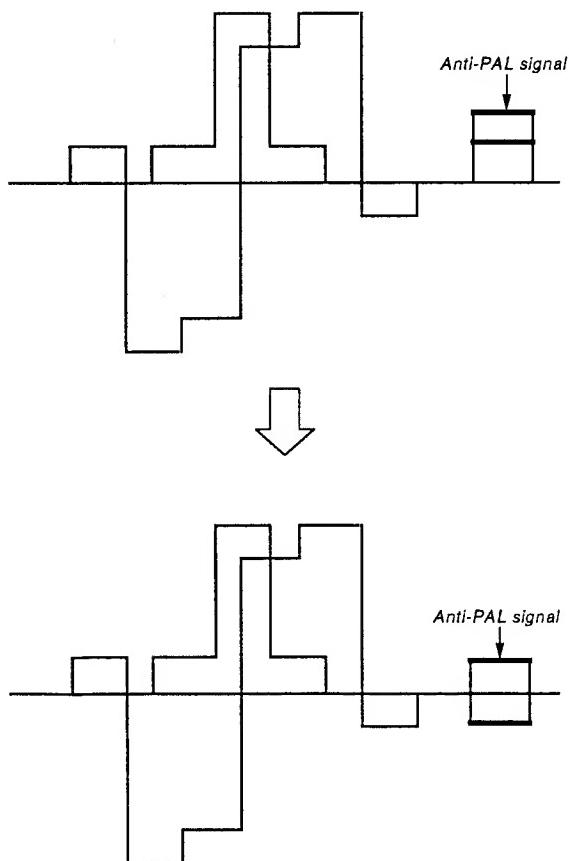


Fig. 6-9

7-3. Connect the oscilloscope to C417 and R372 and adjust RV2 on CP301 so that the anti-PAL signal is as in the figure below.

7-4. Secure the tracking for 7-2. and 7-3.

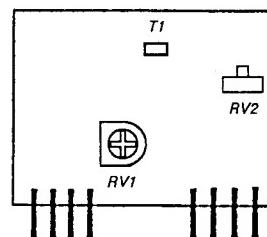
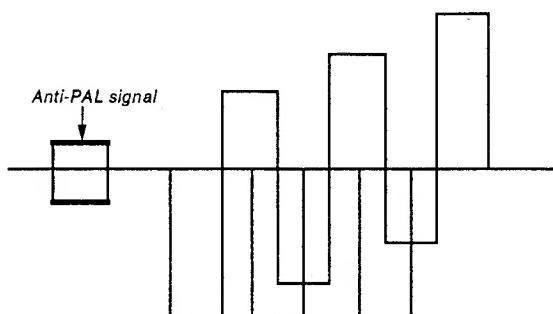
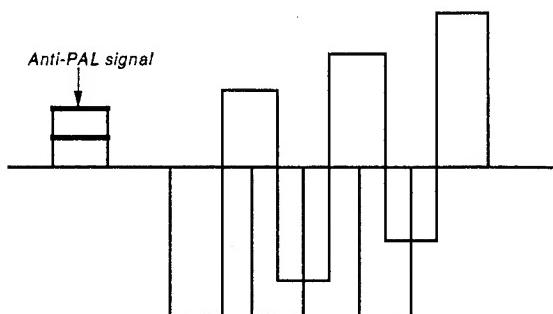


Fig. 6-10

7-5. Connect the oscilloscope to C416 and R373 and adjust RV312 so that the waveform is as in the figure below.

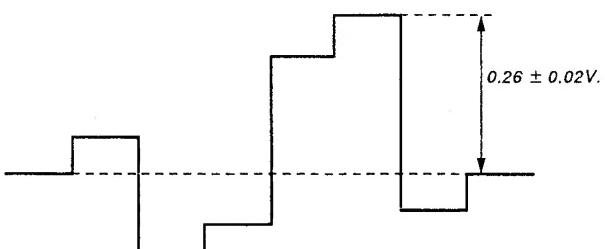


Fig. 6-11

7-6. Connect the oscilloscope to C417 and R372 and adjust RV314 so that the waveform is as in the figure below.

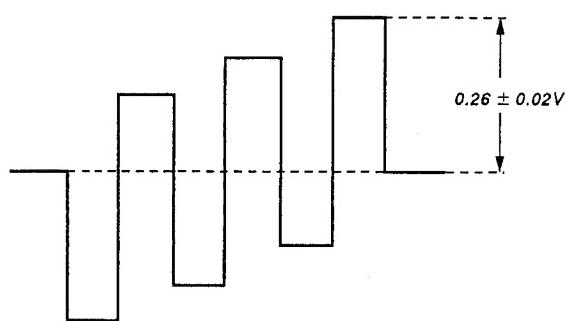


Fig. 6-12

7-7. Change the signal to PAL 75% color bars.

7-8. Connect the oscilloscope to CN305 Pin ③ and adjust RV312 so that the waveform is as in the figure below.

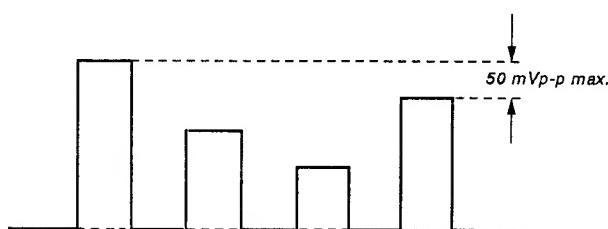


Fig. 6-13

#### 8. Line crawling adjustment

8-1. Input 75% PAL color bars from Line 1.

8-2. Connect the oscilloscope to CN305 Pin ③ and check that the output difference per 1H for the waveform is under 5%.

8-3. If the difference is over 5%, measure between C416 and R373 and between C417 and R372, change the signal to a PAL SP CB signal and adjust T1 on CP301 to minimize the level difference per 1H of the anti-PAL signal.

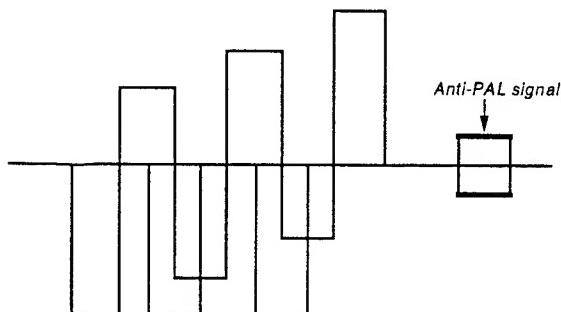


Fig. 6-14

8-4. Repeat the adjustment from 7-1.

#### 9. SECAM bell filter adjustment

9-1. Input SECAM color bars to Line 1.

9-2. Connect the oscilloscope to IC303 Pin ⑧ and adjust T301 so that the waveform is as in the figure below.

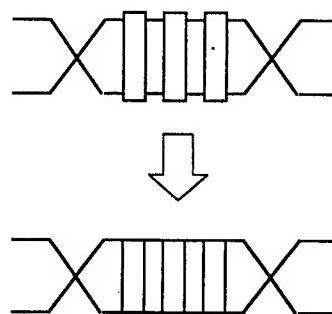


Fig. 6-15

9-3. Input SECAM color bars to Line 1 (100% white).

9-4. Connect the oscilloscope to the emitter of Q359 and adjust with RV313 so that the waveform is as in the figure below.

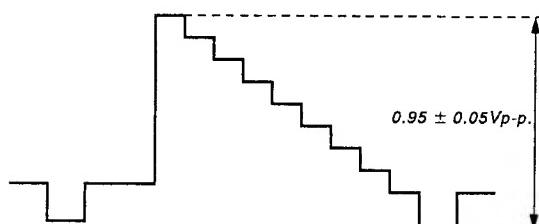


Fig. 6-16

9-5. Connect the oscilloscope between C417 and R372 and adjust LV301 so that the B-Y waveform no-color component level is a straight line.

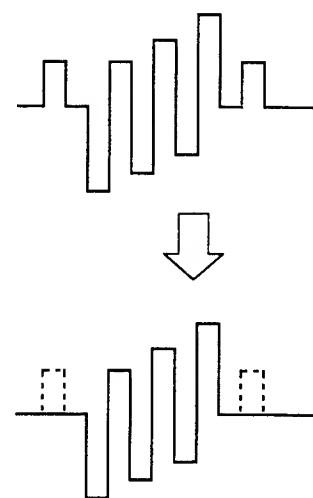


Fig. 6-17

9-6. Connect the oscilloscope between C416 and R373 and adjust LV301 so that the R-Y waveform no-color component level is a straight line.

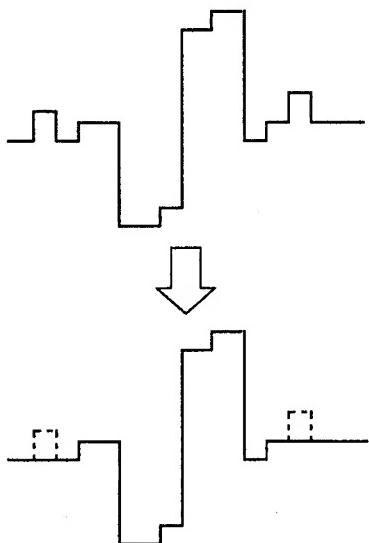


Fig. 6-18

9-7. Input SECAM color bars to Line 1 (75% chroma).

9-8. Connect the oscilloscope between C417 and R372 and adjust RV301 so that the B-Y waveform level is as in the figure below.

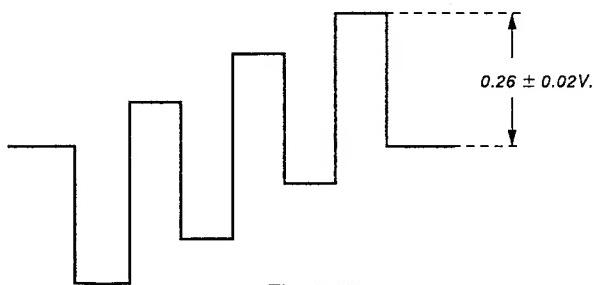


Fig. 6-19

9-9. Connect the oscilloscope between C416 and R373 and adjust RV302 so that the R-Y waveform level is as in the figure below.

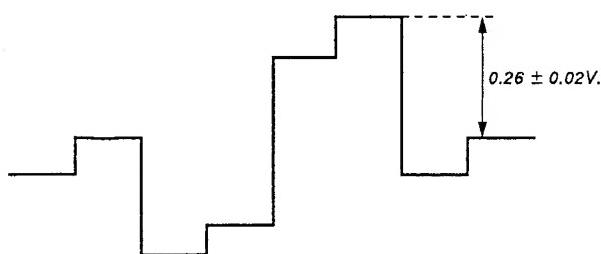
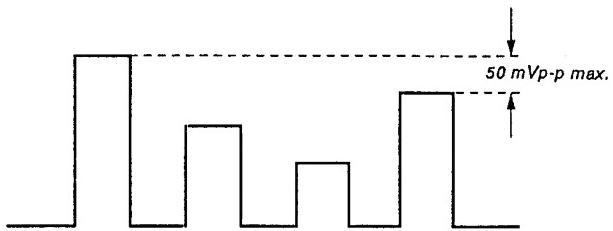


Fig. 6-20

9-10. Connect the oscilloscope to CN305 Pin ③ Y and adjust RV301 so that the heads of the B-Out waveforms line up.

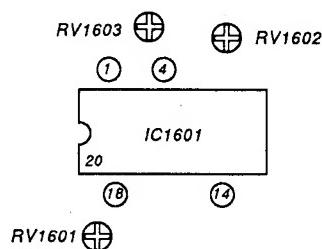


Adjust so that the 1st waveform and the 4th waveform are the same.

Fig. 6-21

## 6-2. A BOARD ADJUSTMENT

A BOARD - CONDUCTOR SIDE -



### 1. Hfo adjustment

- 1-1. Input NTSC color bars.
- 1-2. Short IC1601 Pin ① and Pin ⑭.
- 1-3. Connect a frequency counter to IC1601 Pin 4.
- 1-4. Adjust RV1602 so that the frequency is  $15734 \pm 50$  Hz.
- 1-5. Input PAL color bars.
- 1-6. Adjust RV1603 so that the frequency is  $15624 \pm 50$  Hz.
- 1-7. Remove the jumper from IC1601.

### 2. V Oscillator adjustment

- 2-1. Connect the oscilloscope to IC1601 Pin ⑩ and adjust RV1601 so that the waveform is as shown in the figure below.

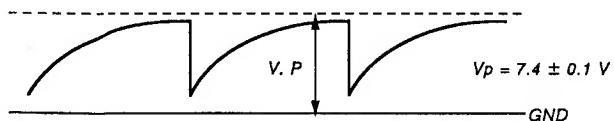
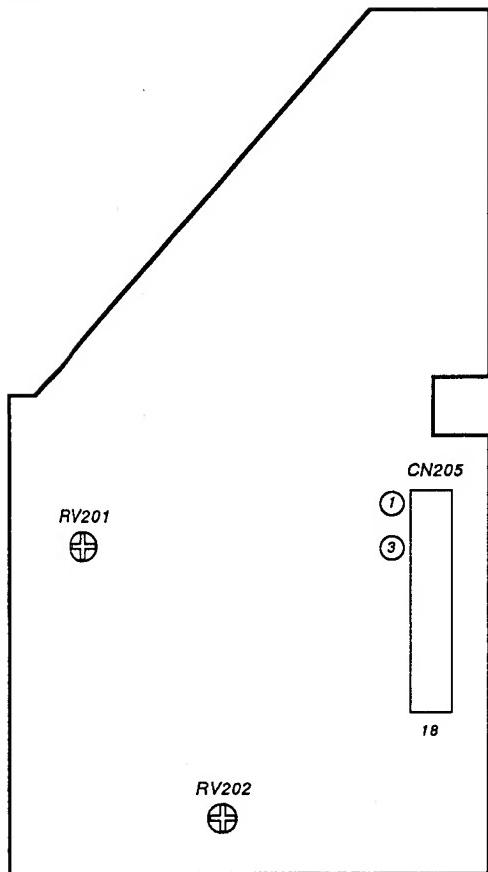


Fig. 6-22

### 6-3. UT BOARD ADJUSTMENT

UT BOARD – CONDUCTOR SIDE –



#### 1. Y signal

- 1-1. Input a 75% white signal, 75% full field signal from SG1410.
- 1-2. Connect the oscilloscope to CN205 Pin ③ and adjust RV201 so that the Y level is as in the figure below.

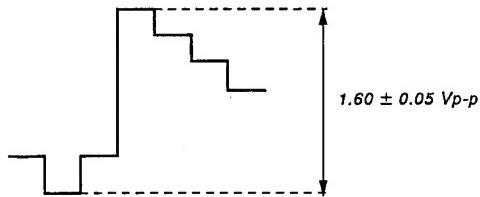


Fig. 6-23

- 1-3. Input a 14.31818MHz clock synchronized with the composite video signal to CN203 Pin ①.
- 1-4. Connect the oscilloscope to CN205 Pin ① and adjust RV202 so that the burst level is as shown in the diagram.

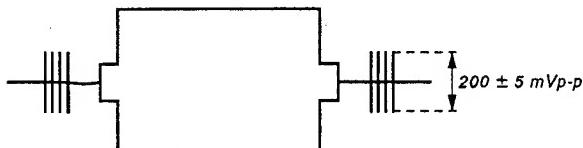
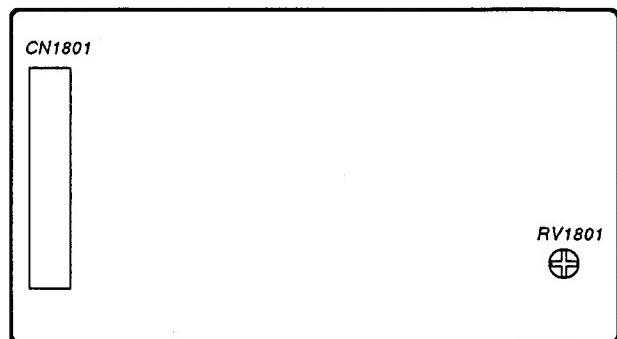


Fig. 6-24

### 6-4. VC BOARD ADJUSTMENT

VC BOARD – CONDUCTOR SIDE –



1. Use the circuit in the figure below

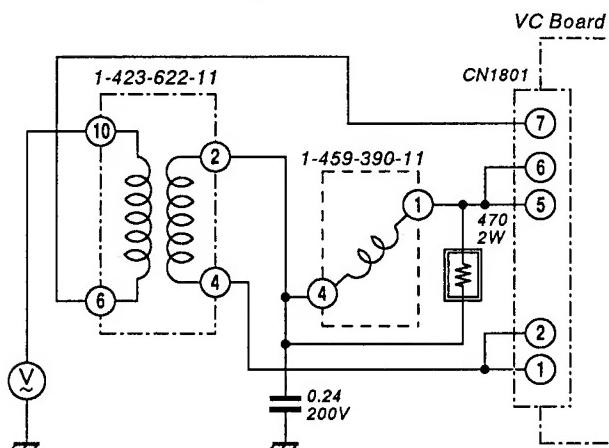


Fig. 6-25

2. Adjustment with RV1801 so that the reading of the voltmeter becomes maximum.

(Notes)

**Regarding the white Balance Adjustment**

Data memory for white balance adjustment is not available for all color temperatures of all signals.

Each data memory is assigned as shown in the table below. However, as variables are possible (adjustment of each item) for signals and color temperatures that have not been actually assigned, it is necessary to exercise care.

**Example 1 :**

At a setting of an input signal component and color temperature of 9300, a data variable of 01 : BRIGHT is possible, but as only one memory each is available for each color temperature, the BRIGHT data of the composite RGB may also change in the same manner when using this setting. (It is the same for the CONTRAST too.)

**Example 2 :**

Due to variations in the characteristics of the R CUT OFF, these characteristics have to be adjusted only in cases in which the white balance cannot be adjusted, but normally they are not adjusted. As there is only one data memory each for all conditions, the black level of the red color for all signals and color temperatures (the white balance of the black side) change when changing this data.

		1	2	3	4	5	6	7	8
		BRIGHT	G CUTOFF	B CUTOFF	G DRIVE	B DRIVE	CONTR.	R CUTOFF	RESET
COMPOS.	9,300	O	O	O	O	O	O	X	
	6,500	O	O	O	O	O	O	•	•
COMPONENT	9,300	X	O	O	X	X	X	X	
	6,500	X	O	O	X	X	X	X	
RGB	3,200	X	O	O	X	X	X	X	
	9,300	X	O	O	X	X	X	X	
	6,500	X	O	O	X	X	X	X	
	3,200	X	O	O	X	X	X	X	

O: Memory is available for each color temperature of the composite signals.

O: Memory is available for each color temperature for each signal.

•: Only one memory is available for all color temperatures of all signals

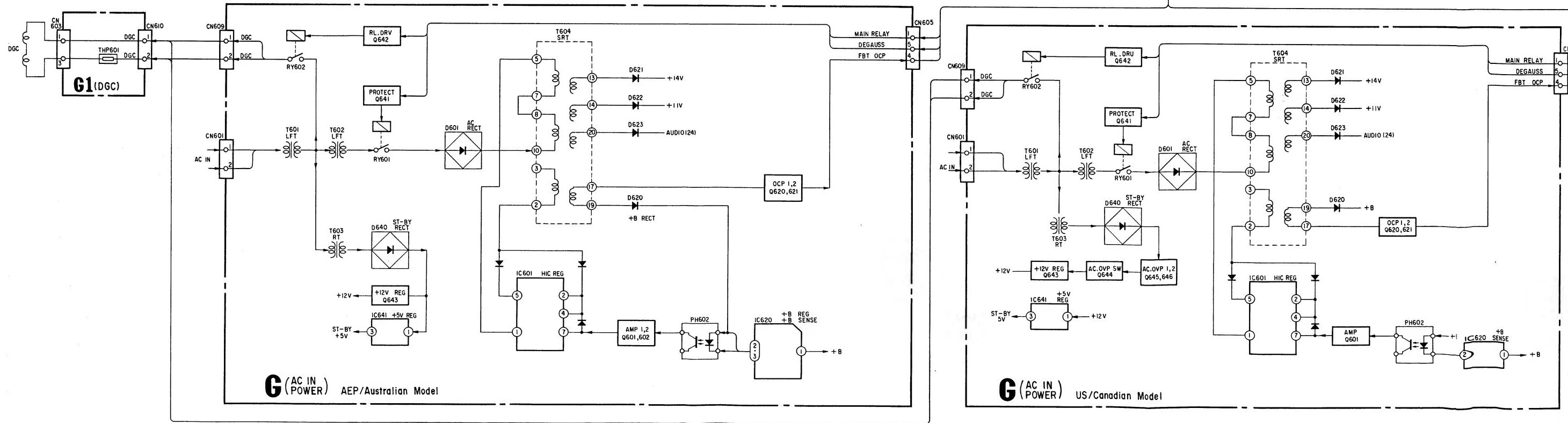
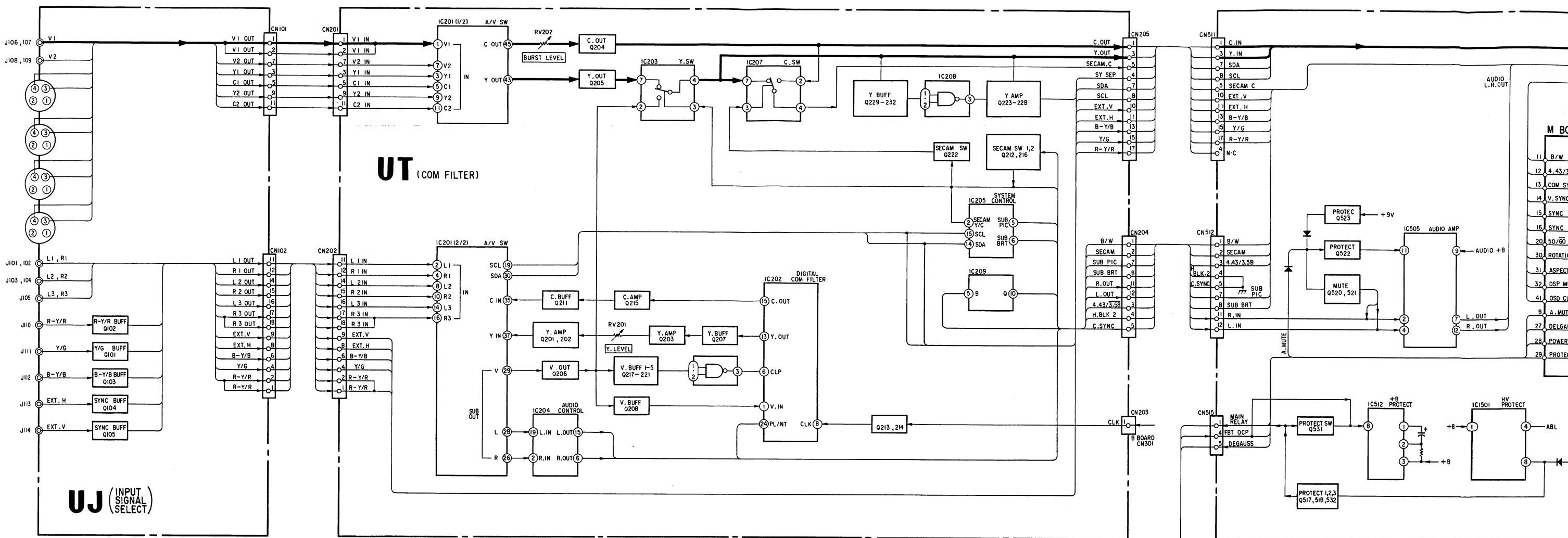
X: No memory is available. Data variation is possible, but basically no adjustment is made under this condition.

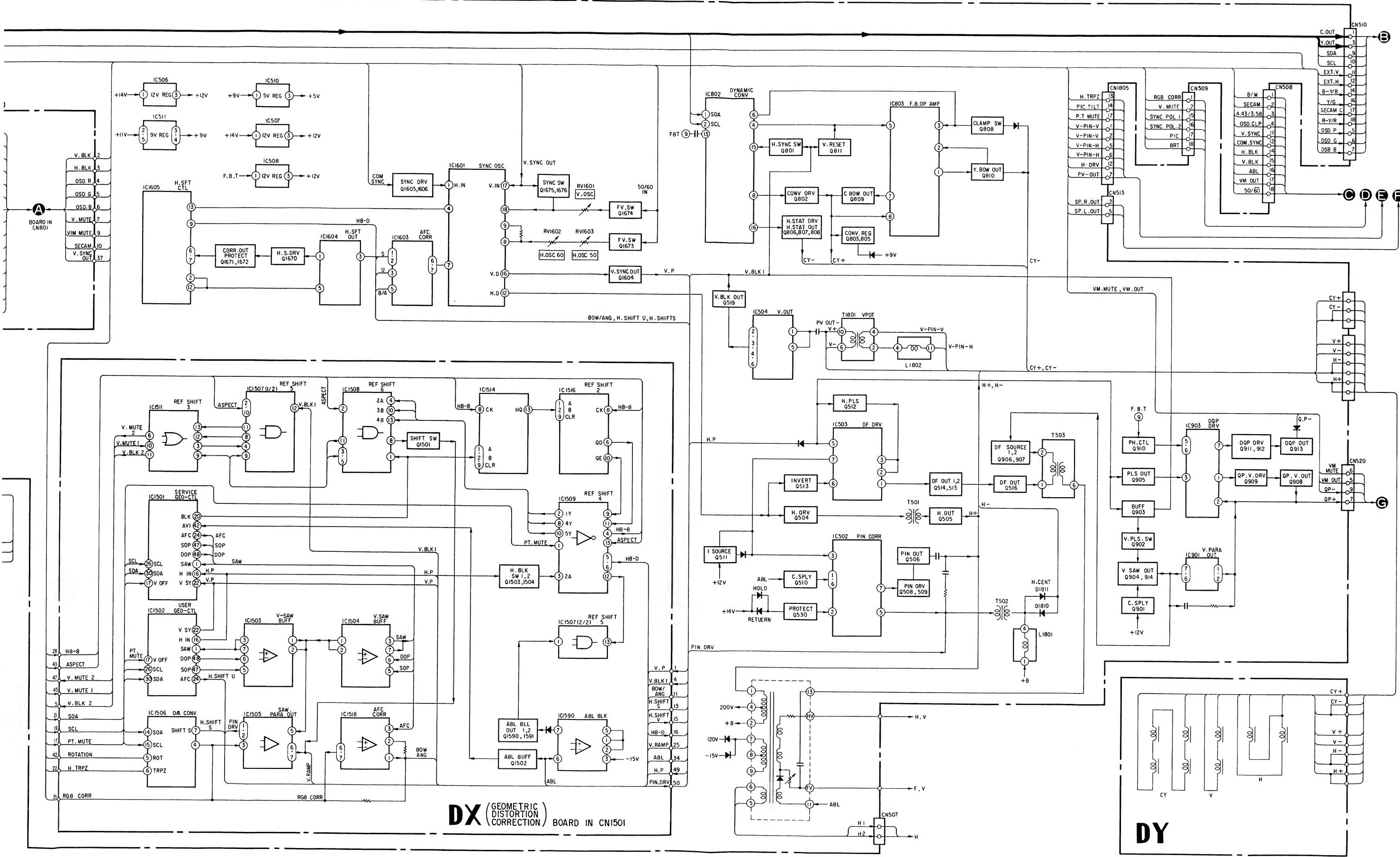
(Please refer to Example 1 and Example 2 in the preceding text.)

# **SECTION 7**

## **DIAGRAMS**

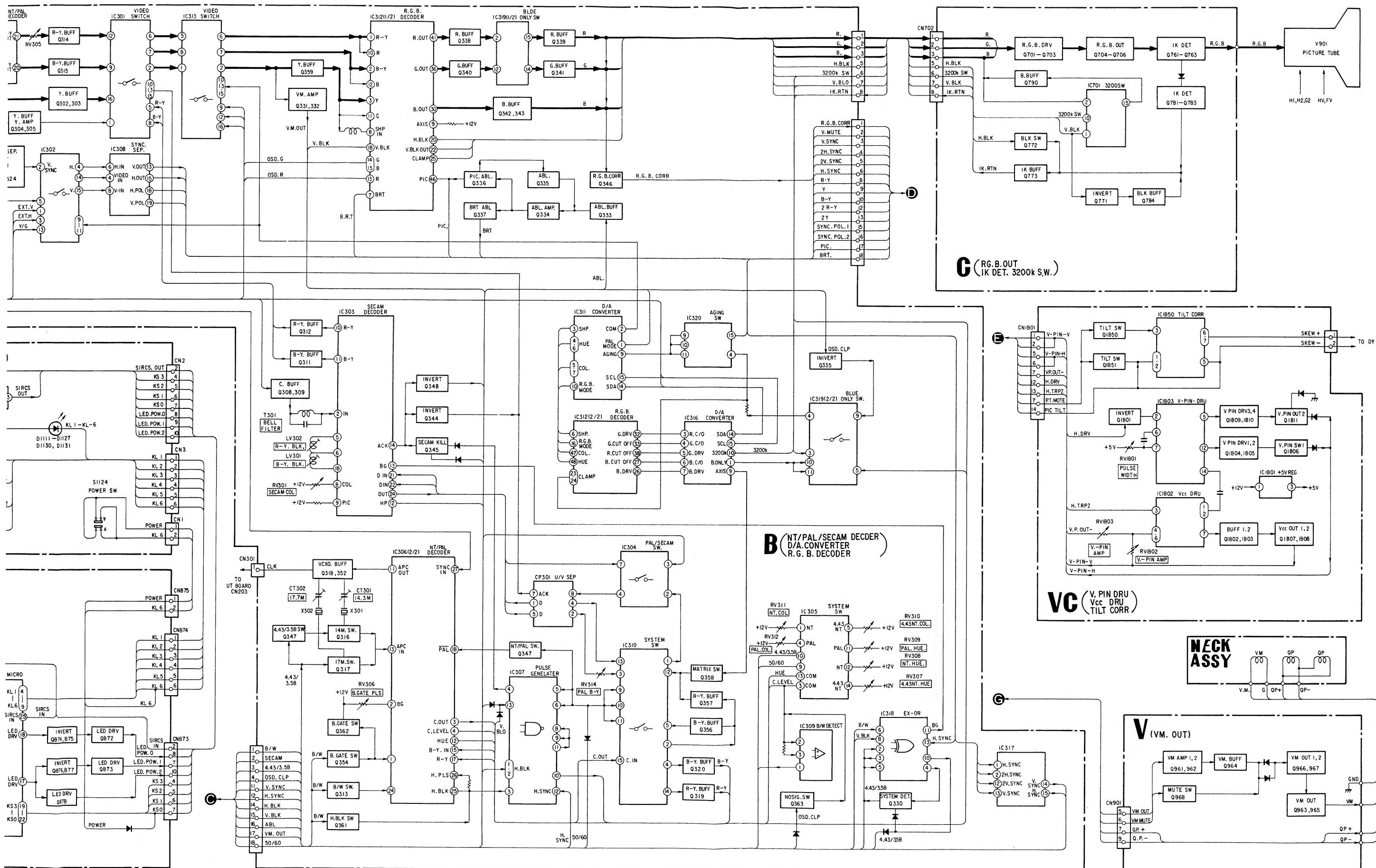
## 7-1. BLOCK DIAGRAMS (1)



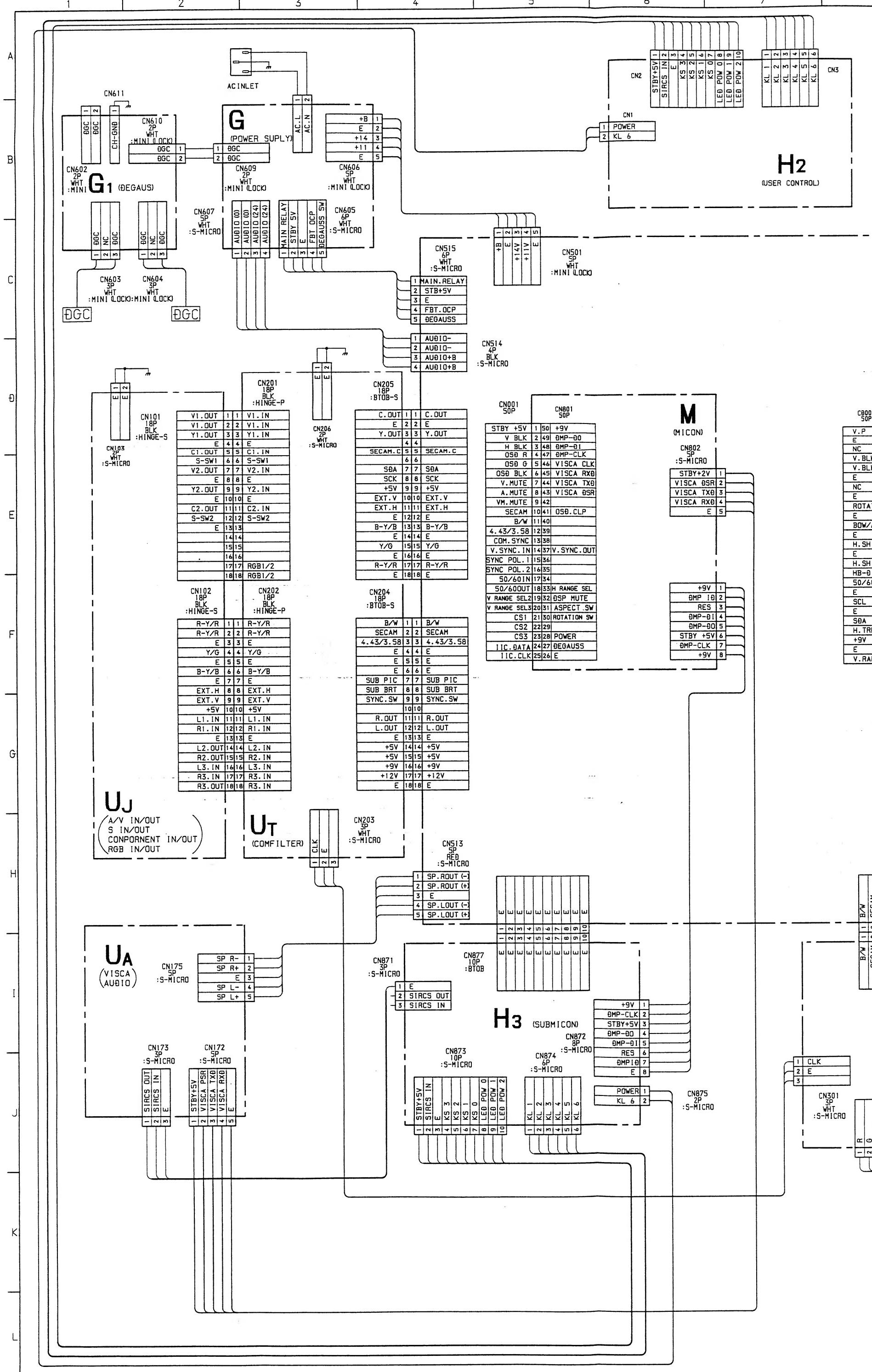


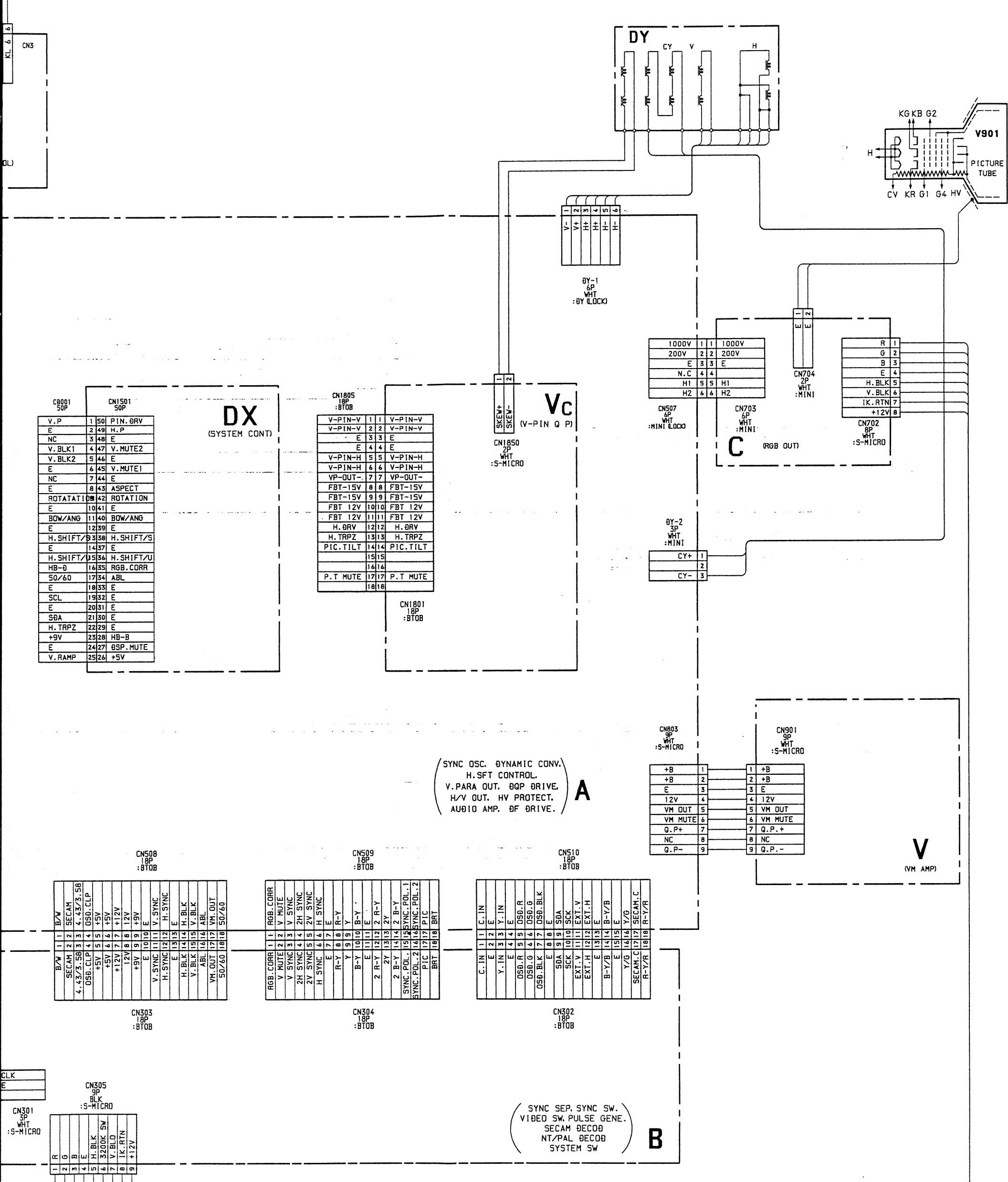
## BLOCK DIAGRAMS (2)





7-2. FRAME SCHEMATIC DIAGRAM





6

7

8

9

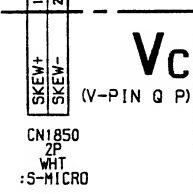
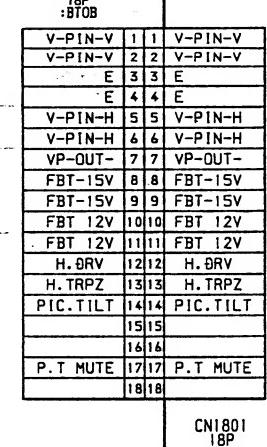
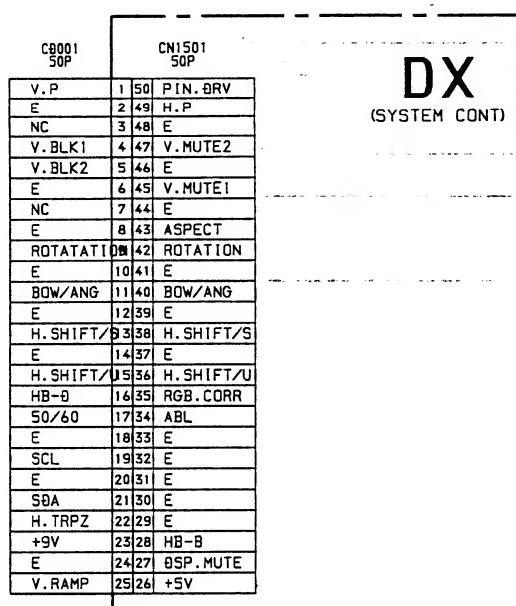
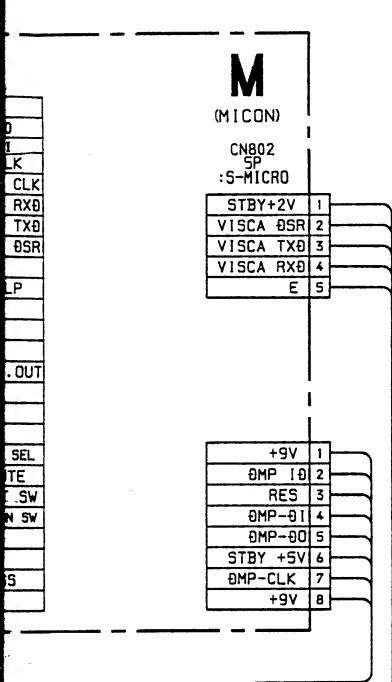
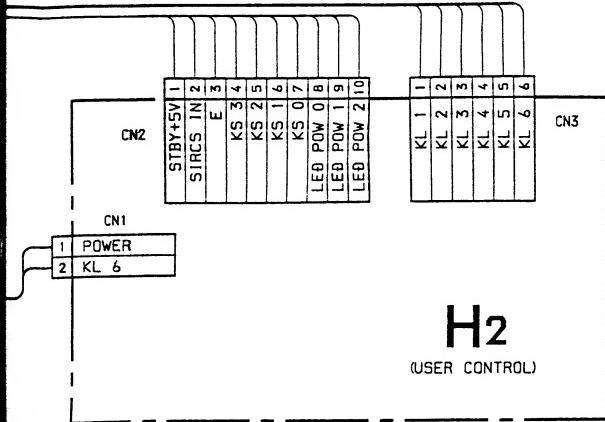
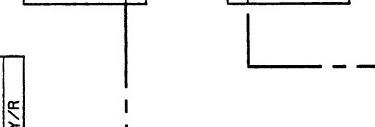
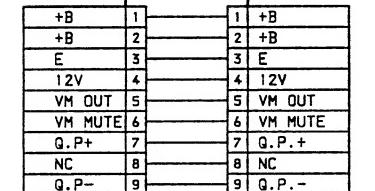
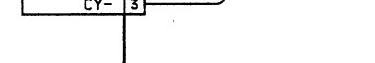
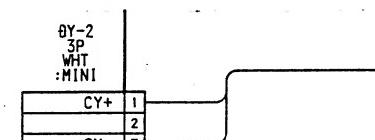
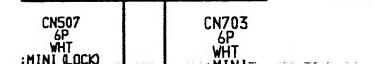
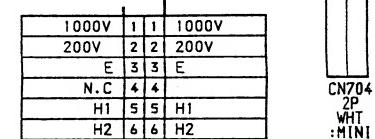
10

11

12

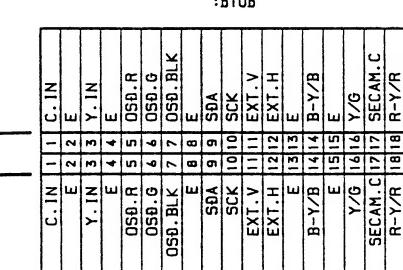
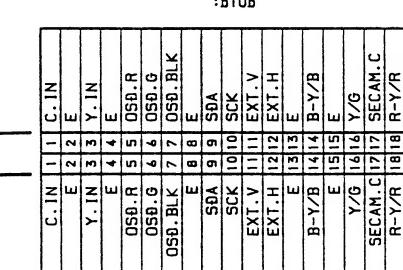
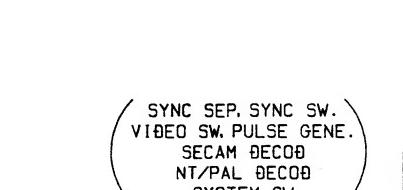
13

14

CN1801  
18P :BTOB

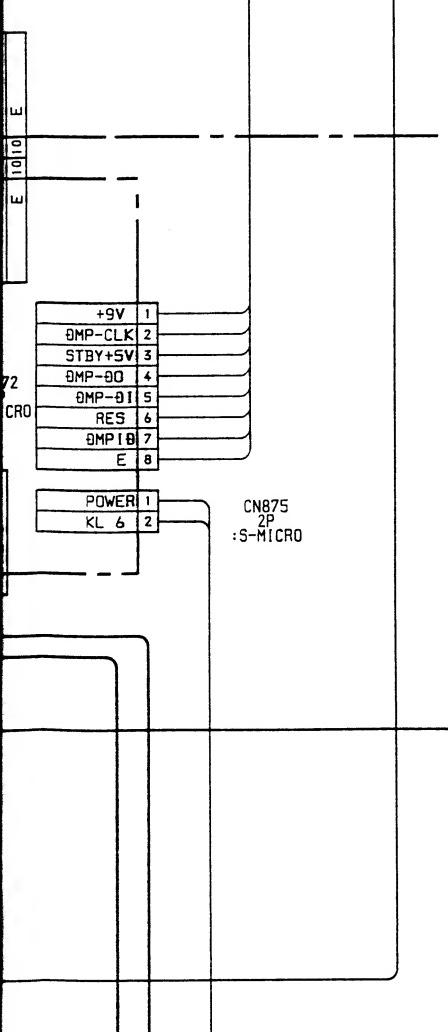
SYNC OSC, DYNAMIC CONV.  
H.SFT CONTROL  
V.PARA OUT, BQP DRIVE  
H/V OUT, HV PROTECT.  
AU910 AMP, DF DRIVE.

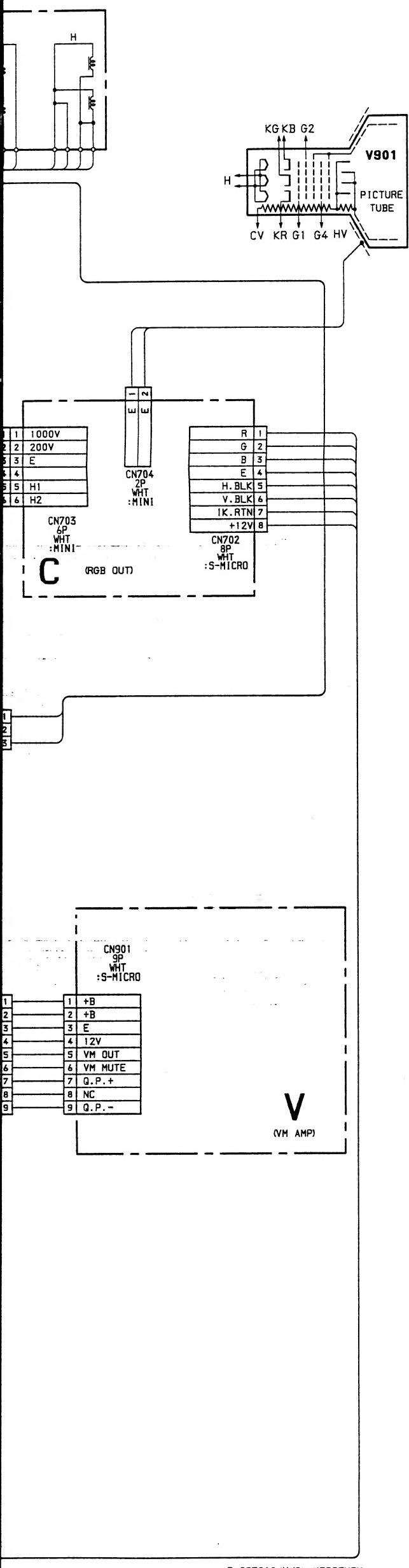
A

CN509  
18P :BTOBCN304  
18P :BTOBCN302  
18P :BTOB

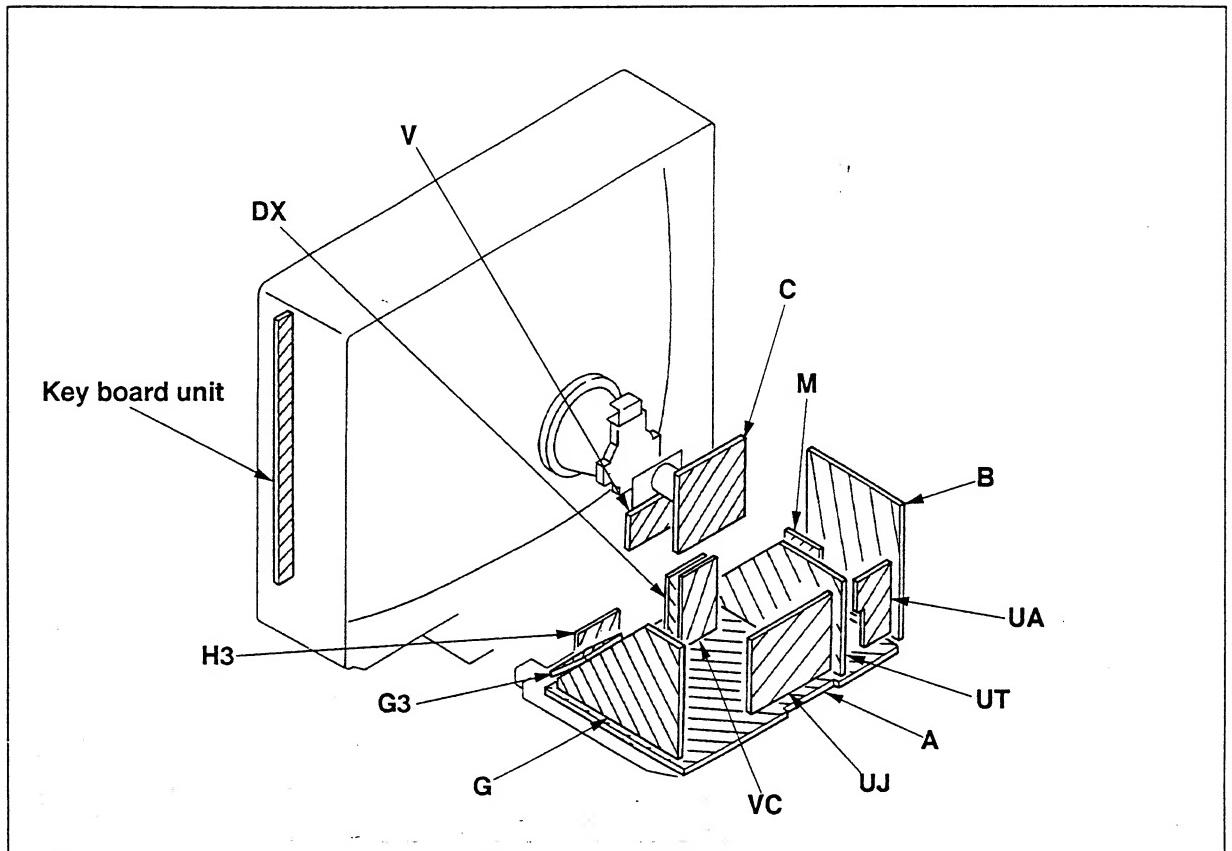
SYNC SEP, SYNC SW.  
VIDEO SW. PULSE GENE.  
SECAM DECODE  
NT/PAL DECODE  
SYSTEM SW

B





### 7-3. CIRCUIT BOARDS LOCATION



### 7-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

#### Note:

- All capacitors are in  $\mu\text{F}$  unless otherwise noted.  
pF:  $\mu\text{F}$  50V or less are not indicated except for electrolytic and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- All resistors are in ohms.  
 $\text{K}\Omega = 1000\Omega$ ,  $\text{M}\Omega = 1000\text{K}\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows.
- Pitch: 5 mm  
Rating electrical power 1/4W
- Chips resistors are 1/10W.
- : nonflammable resistor.
- : internal component.
- : panel designation, and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-ground.
- : earth-chassis.
- : earth-chassis.
- The components identified by **█** in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- When replacing components identified by **█** mark the necessary adjustments indicated. If results do not meet the specified value, change the component identified by **█** and repeat the adjustment until the specified value is achieved.  
(Refer to R581 and R583 on Page 28, 29 in the Service Manual.)
- When replacing the part in below table be sure to perform the related adjustment.

- Readings are taken with a color-bar signal input.
- Readings are taken with a 10  $\text{M}\Omega$  digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerance.
- All voltages are in V.
- : B+ bus.
- - - : B- bus.
- : signal path.

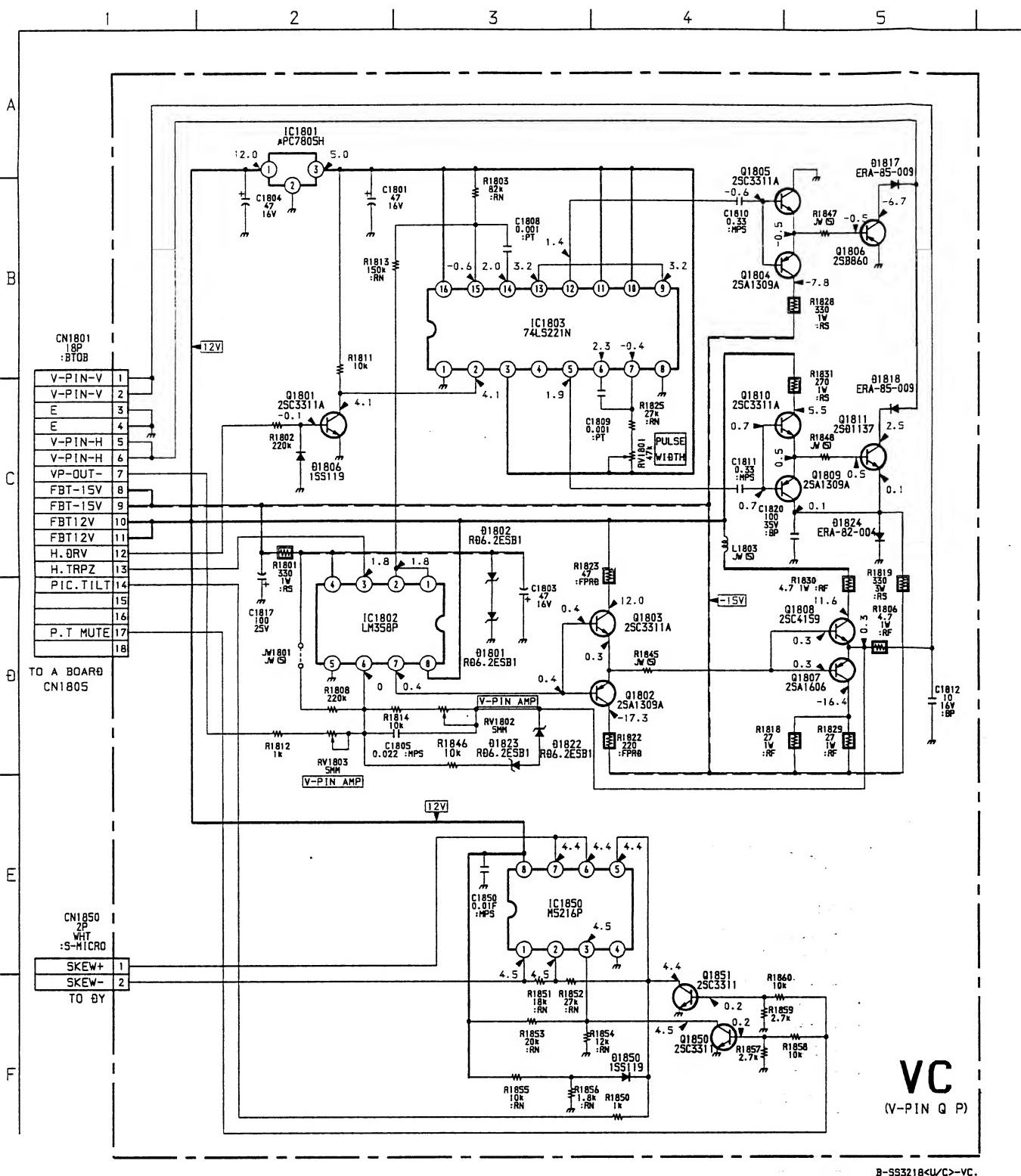
#### Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METALOXIDE
	: RB	NONFLAMMABLE CEMENT
	: ✕	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

Part replaced ( <b>█</b> )	Adjustment ( <b>█</b> )
C574, D515, IC501, Q517, Q518, R578, R580, R581, R582, R583, R584, R585, T504.....A BOARD IC620 .....G BOARD	R581 (HOLD-DOWN)
C574, D515, IC501, Q517, Q518, R578, R580, R581, R582, R583, R584, R585, T504.....A BOARD IC620 .....G BOARD	R583 (HOLD-DOWN)

Note: Les composants identifiés par une trame et par une marque **▲** sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

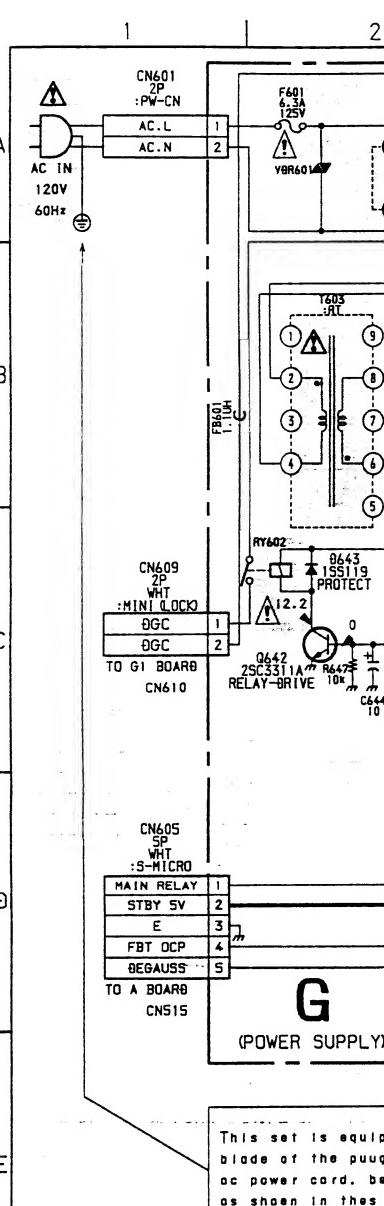


## VC BOARD

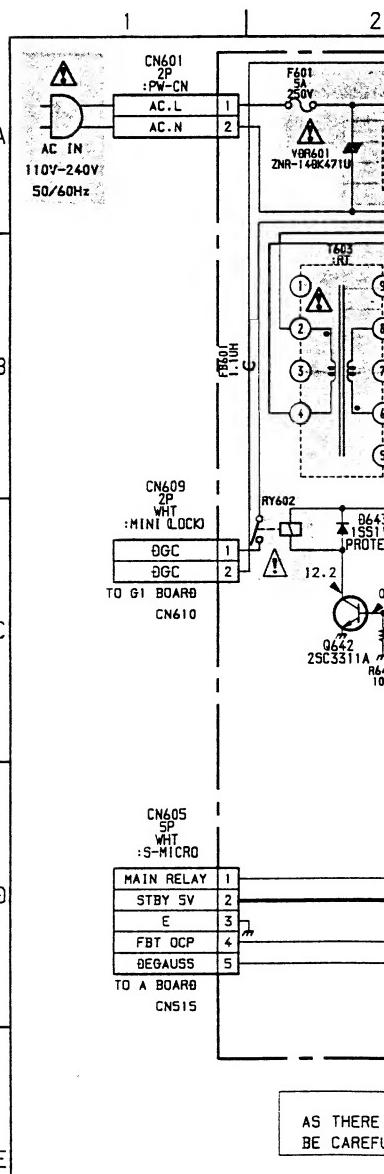
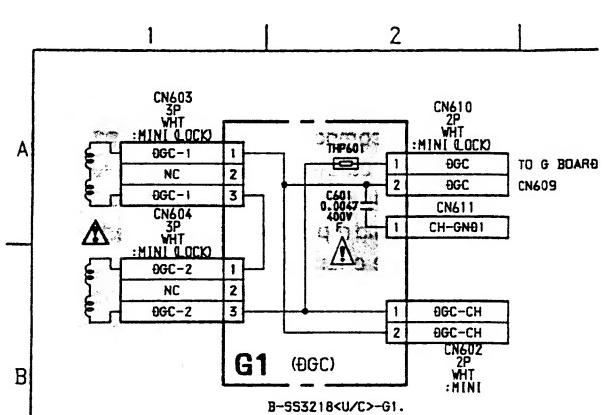
D1801	CLIP 2
D1802	CLIP 1
D1806	PROTECT
D1817	V PIN SW 1
D1818	V PIN SW 2
D1822	PIN GAMMA 1
D1823	PIN GAMMA 2
D1824	C SOURCE
D1850	MUTE SW
IC1801	5V REG
IC1802	VCC DRC
IC1803	V PIN DRV
IC1850	TIILT CORR
Q1801	INVERT
Q1802	BUFF 2
Q1803	BUFF 1
Q1804	V PIN DRV 2
Q1805	V PIN DRV 1
Q1806	V PIN OUT 1
Q1807	VCC OUT 2
Q1808	VCC OUT 1
Q1809	V PIN DRV 4
Q1810	V PIN DRV 3
Q1811	V PIN OUT 2
Q1850	TIILT SW
Q1851	TIILT SW

Schematic diagrams

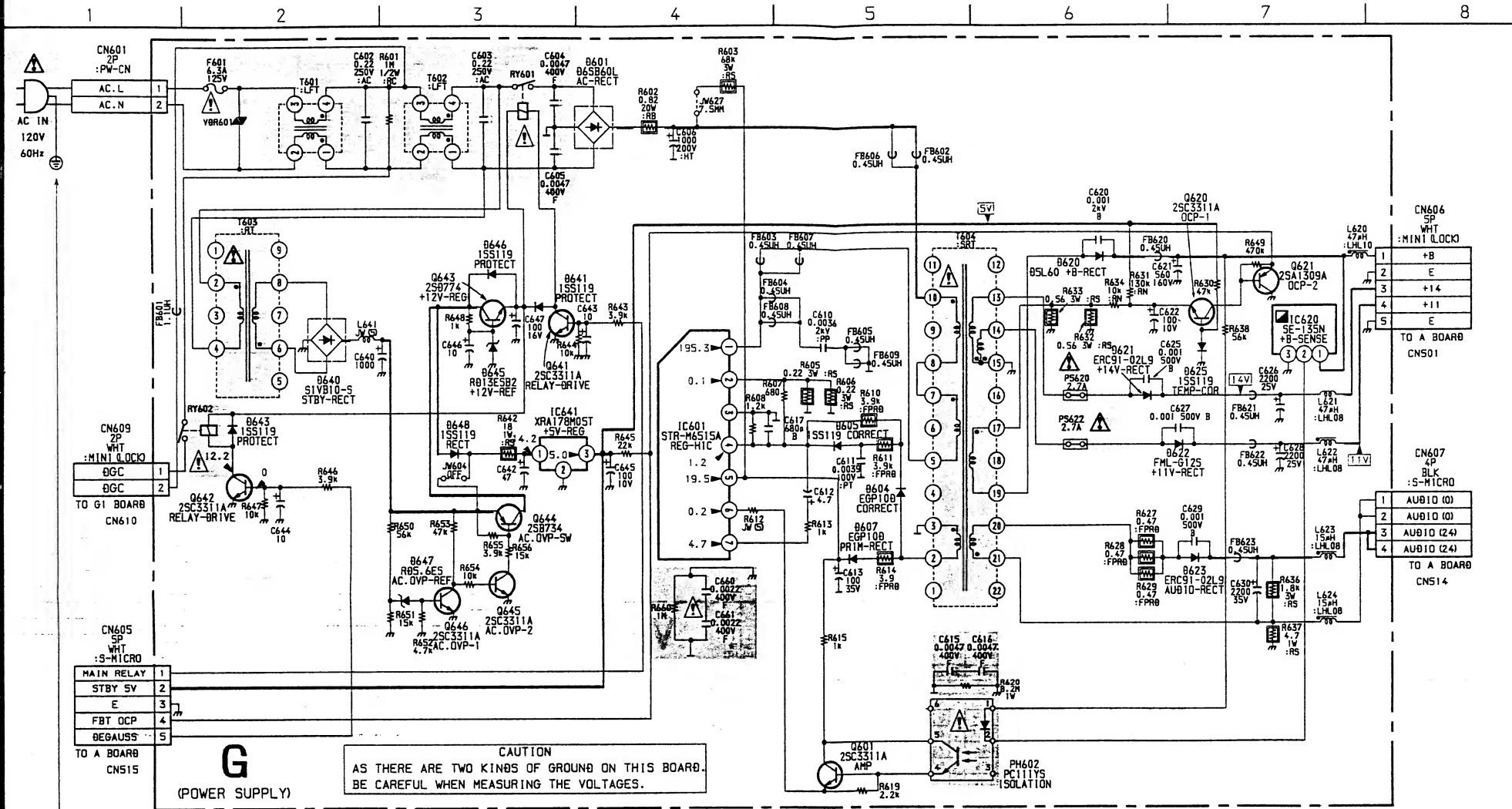
G G1 H2 boards →  
 H3 VC



## (AEP, AUS Model)

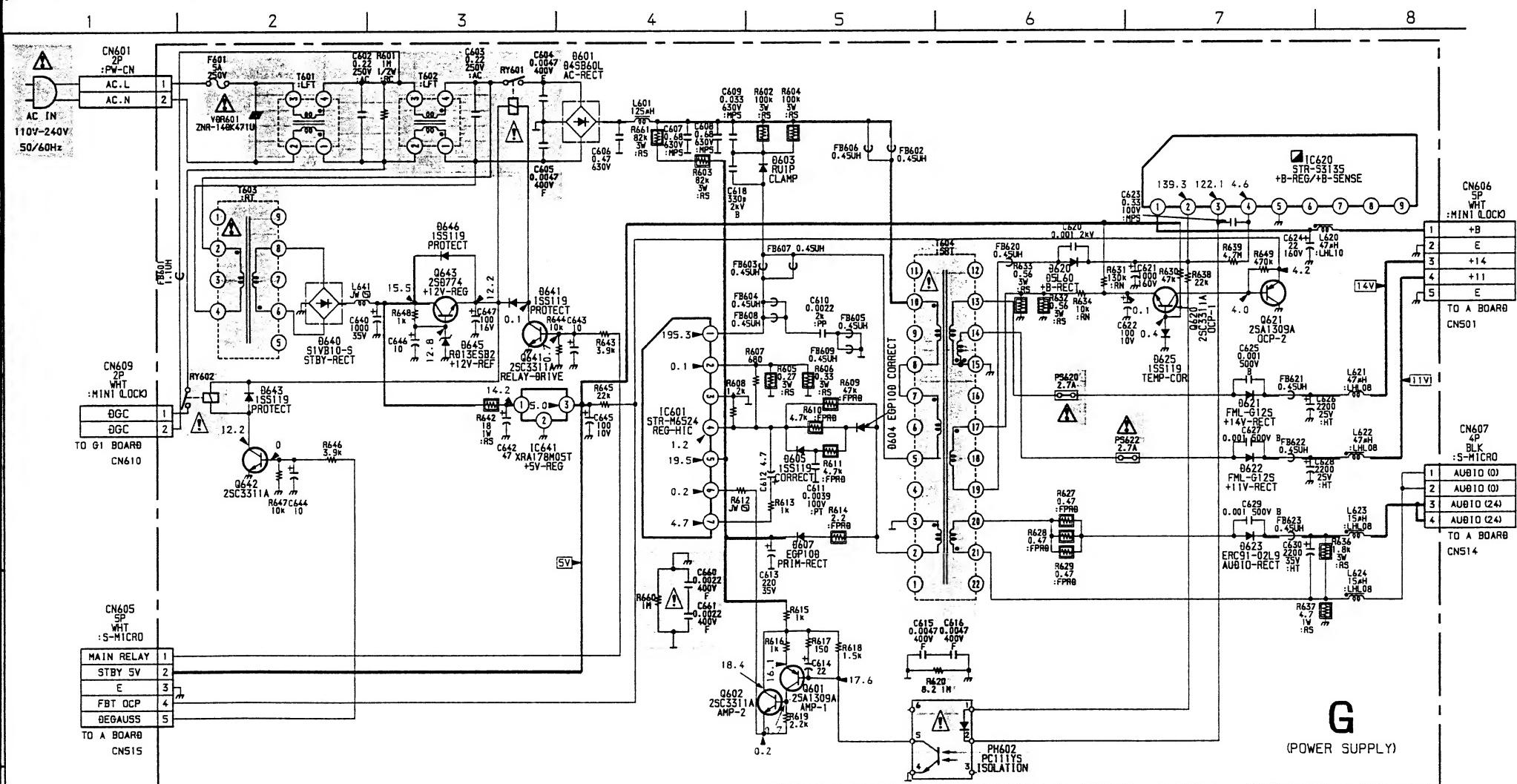


(US, Canadian Model)

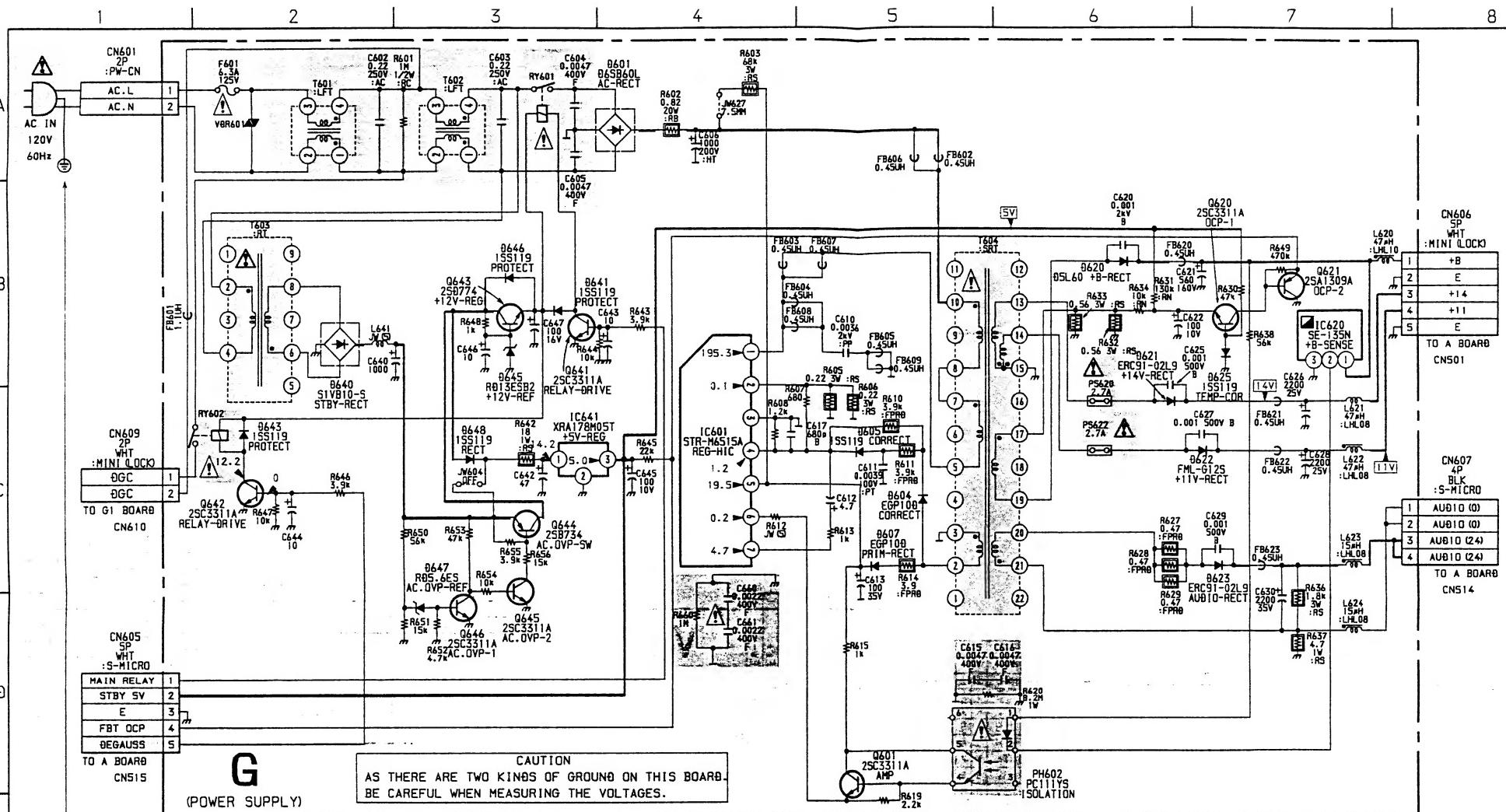


**CAUTION (US MODEL ONLY)**  
This set is equipped with a polarized ac power cord plug (one blade of the plug is wider than the other). When replacing the ac power cord, be sure to connect it with specified part number as shown in this diagram.

(AEP, AUS Model)

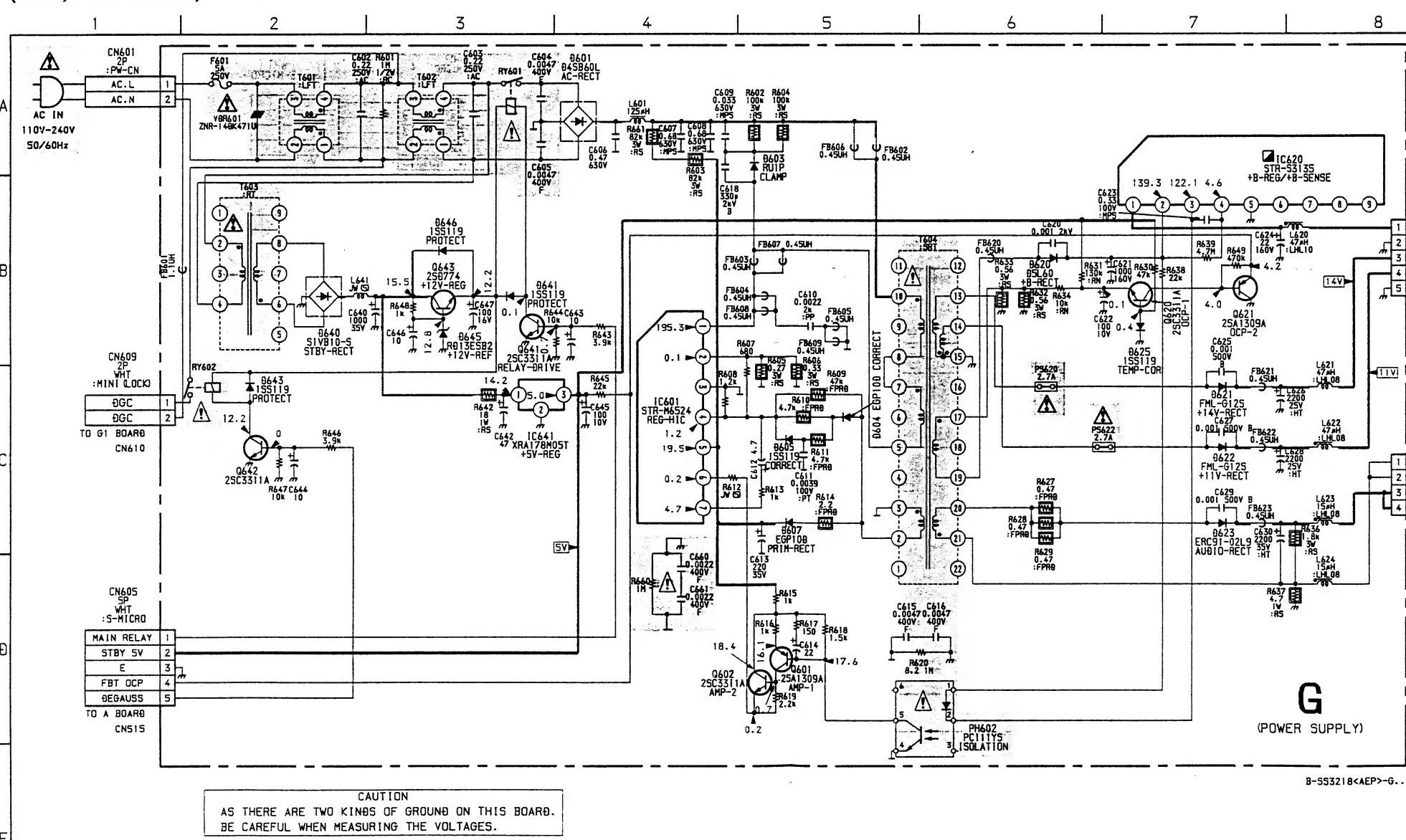


(US, Canadian Model)

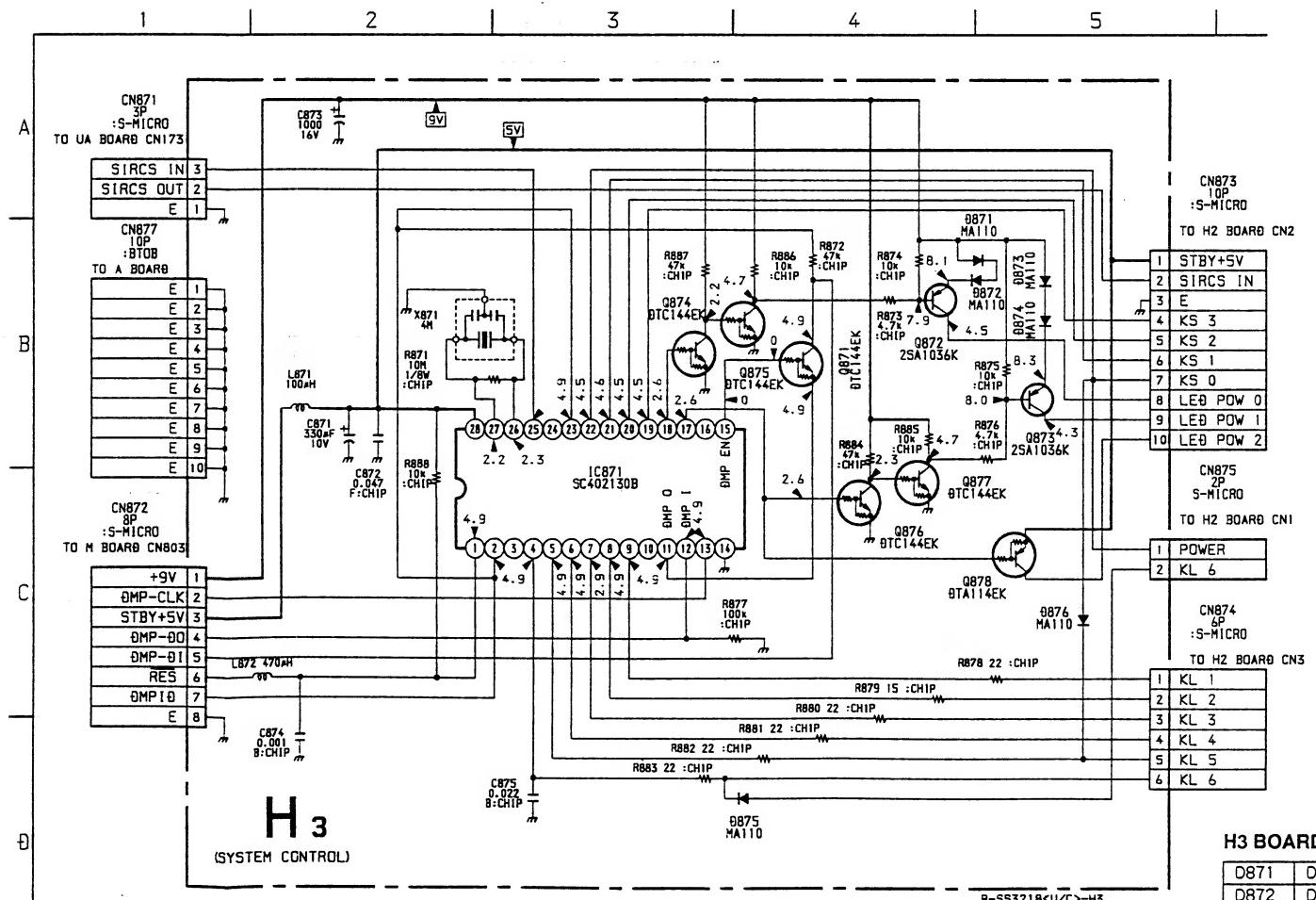
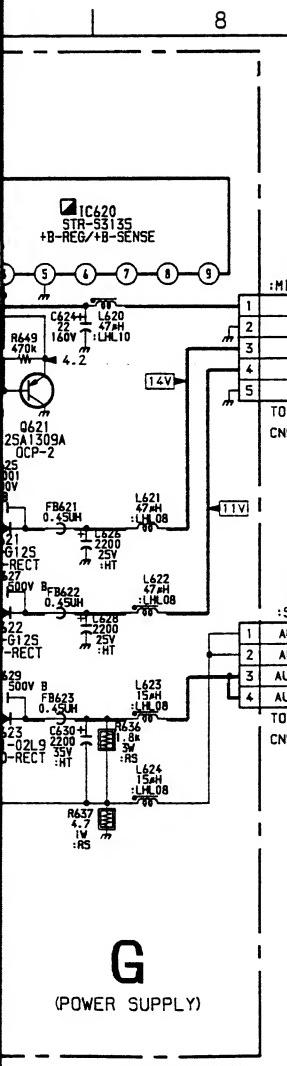
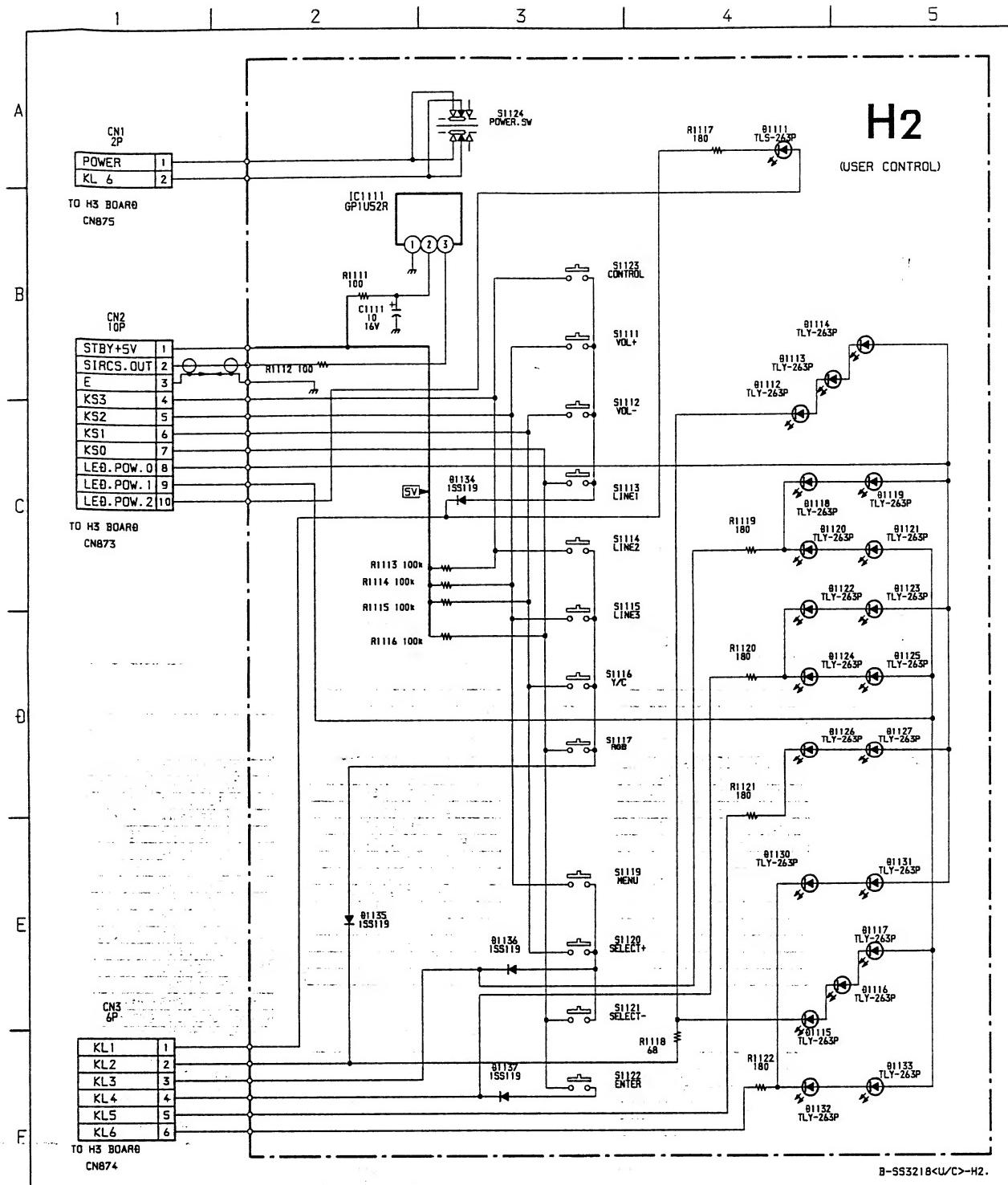
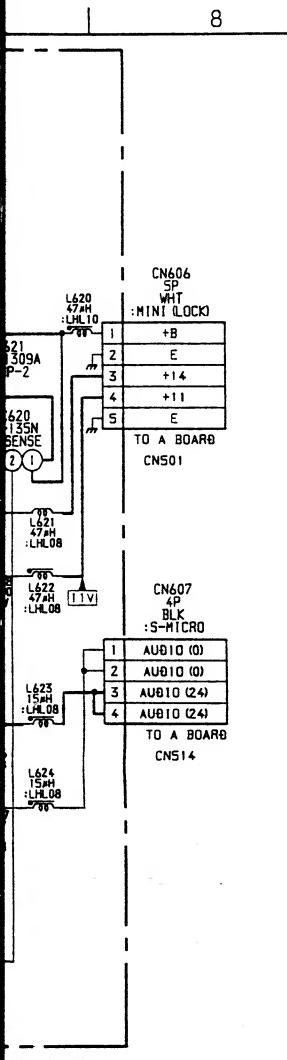


B-SS3218<U/C>-G..

(AEP, AUS Model)



B-SS3218<AEP>-G..



**G**

[POWER SUPPLY]

**H3**

[SYSTEM CONTROL]

**G1**

[DGC]

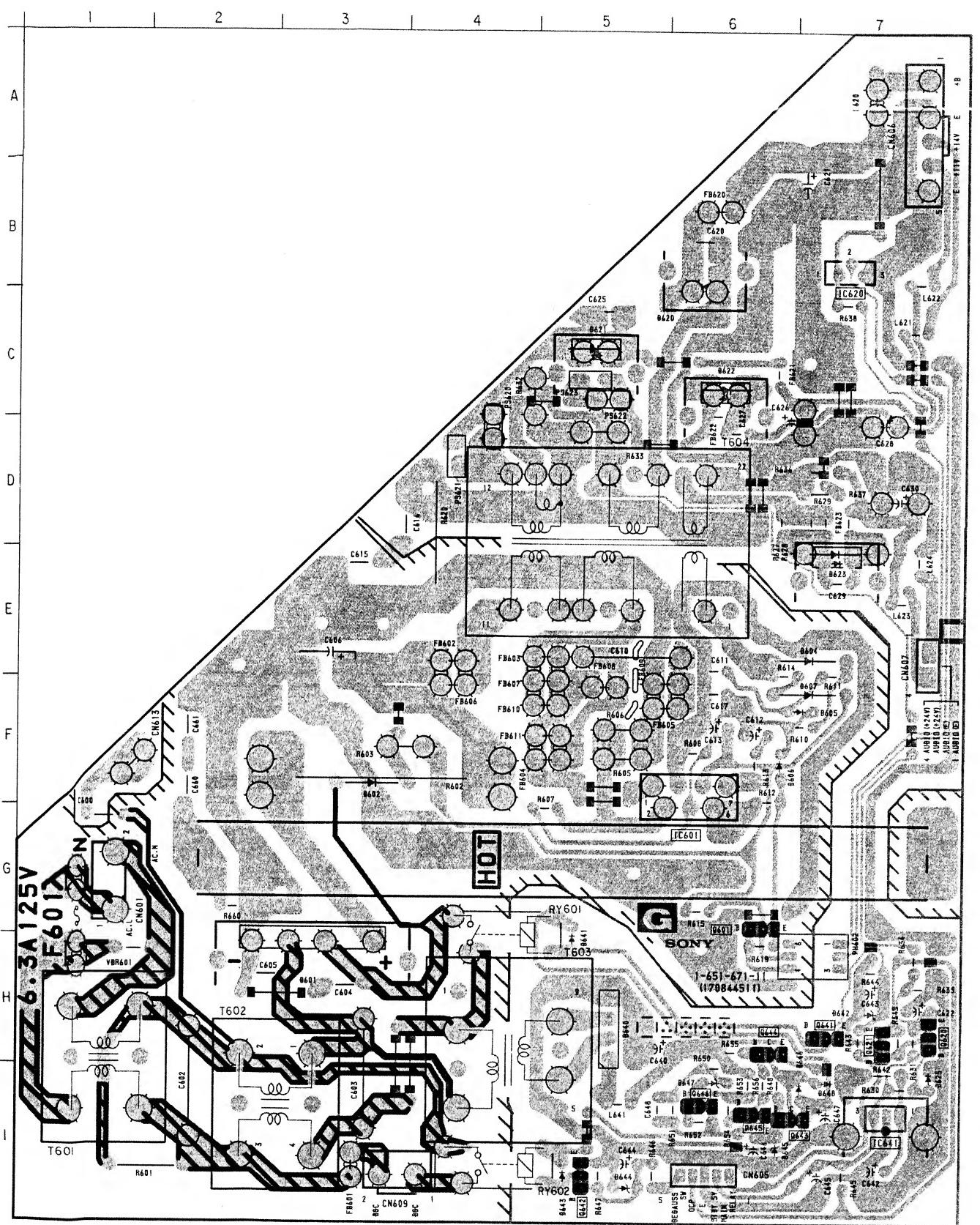
**H2**

[USER CONTROL]

**VC**

[V - PIN Q P]

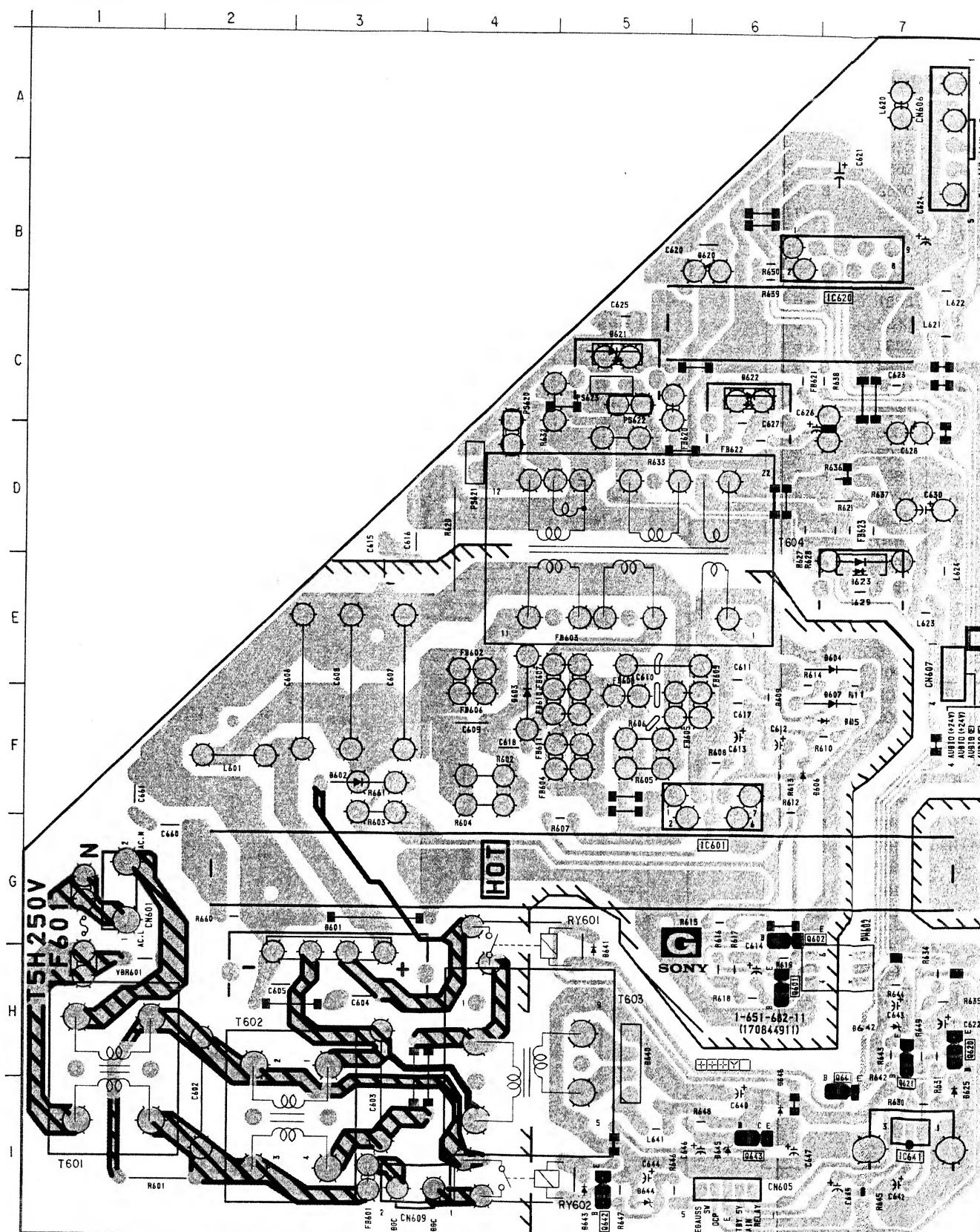
- G BOARD - (US, Canadian Model)

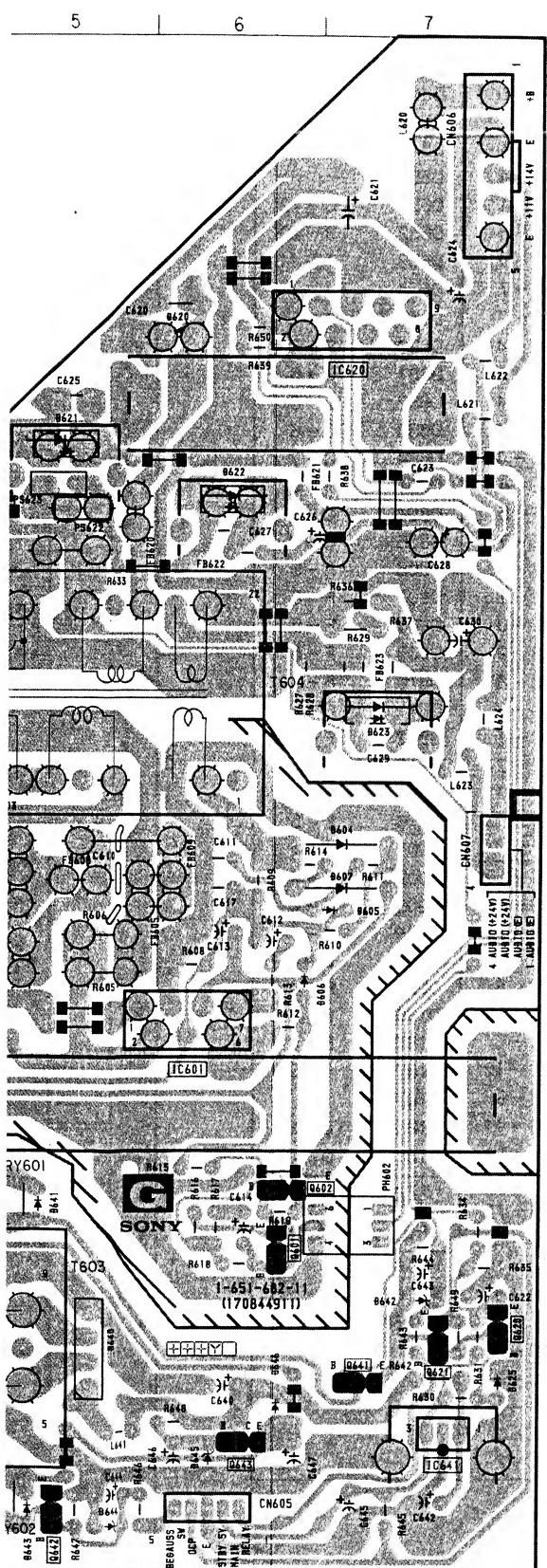


**G BOARD**

IC	
IC601	F - 6
IC620	B - 7
IC641	I - 7
<b>TRANSISTOR</b>	
O601	G - 6
O620	H - 7
O621	H - 7
O641	H - 7
O642	I - 5
O643	I - 6
O644	H - 6
O645	I - 6
O646	I - 6
<b>DIODE</b>	
D601	H - 3
D604	E - 7
D605	F - 7
D607	F - 7
D620	B - 6
D621	C - 5
D622	C - 6
D623	E - 7
D625	I - 7
D640	H - 5
D641	G - 5
D643	I - 5
D645	I - 6
D646	I - 7
D647	I - 6
D648	I - 7

- G BOARD - (AEP, AUS Model)

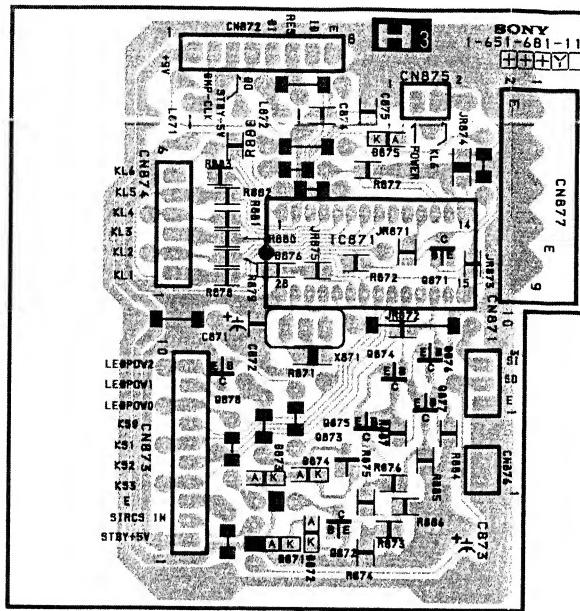




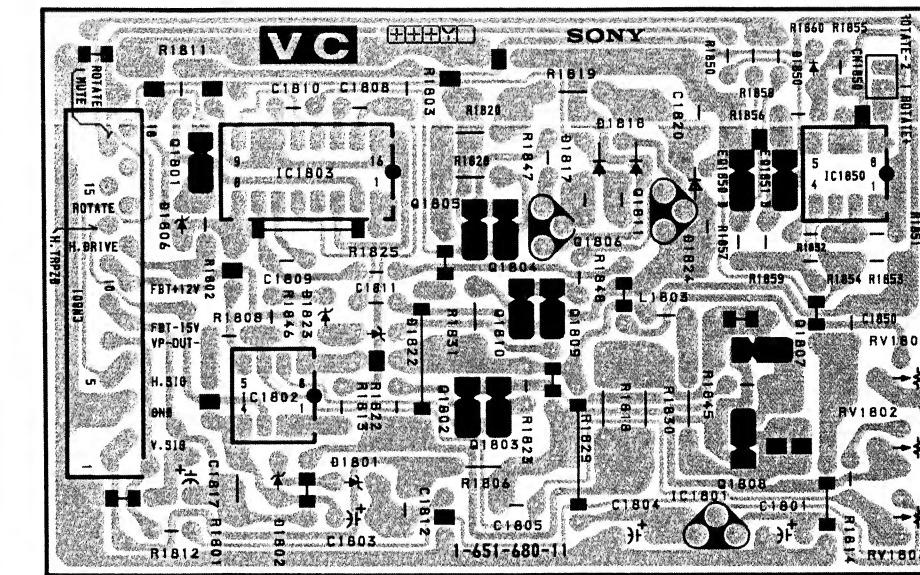
G BOARD

IC	
IC601	F - 6
IC620	B - 7
IC641	I - 7
TRANSISTOR	
Q601	H - 6
D602	G - 6
Q620	H - 7
Q621	H - 7
Q641	I - 7
Q642	I - 5
Q643	I - 6
DIODE	
D601	H - 3
D603	F - 4
D604	E - 7
D605	F - 7
D607	F - 7
D620	B - 6
D621	C - 5
D622	C - 6
D623	E - 7
D625	I - 7
D640	H - 5
D641	G - 5
D643	I - 5
D645	I - 6
D646	I - 6

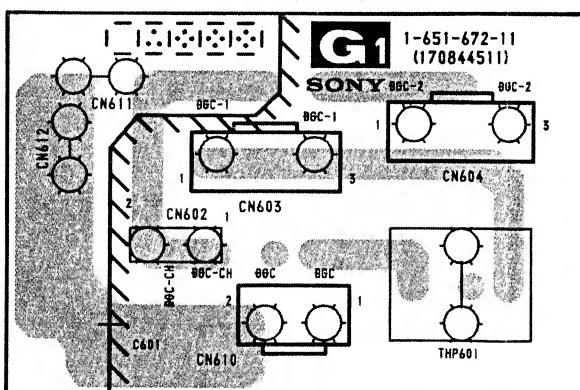
- H3 BOARD -



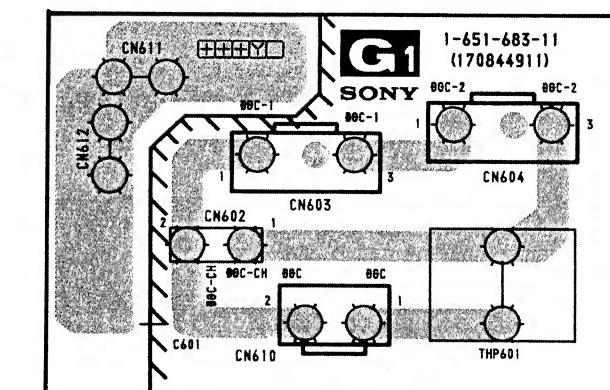
- VC BOARD -



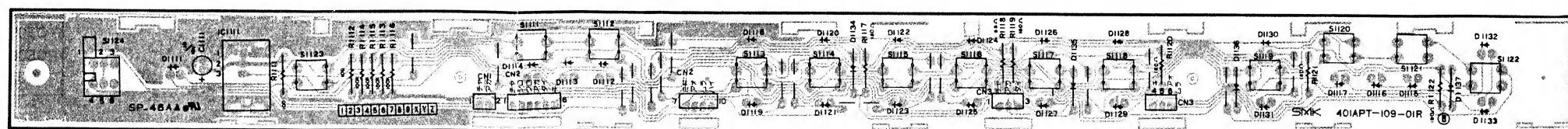
– G1 BOARD – (US, Canadian Model)



#### **- G1 BOARD - (AEP, AUS Model)**



- H2 BOARD -

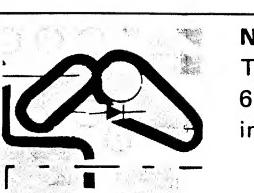


**A** SYNC OSC,  
V. PARA. OU  
HV PROTEC

- A BOARD -

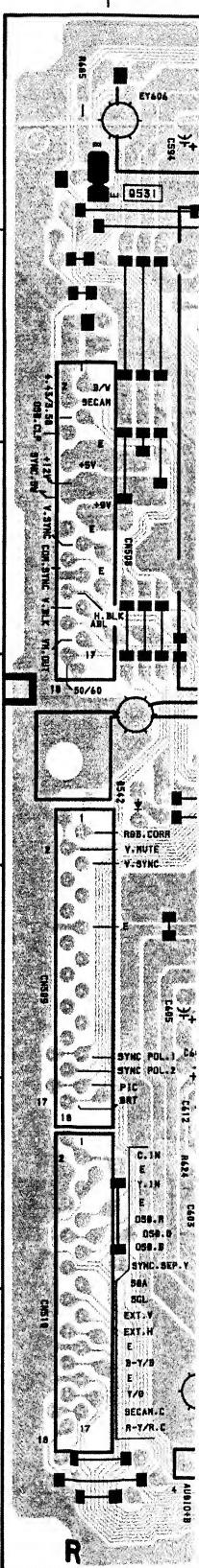
**A BOARD**

IC	Q808	F - 5	D532	E - 2
IC501	Q809	G - 6	D533	B - 3
IC502	Q810	G - 6	D534	C - 3
IC503	Q811	F - 6	D535	D - 3
IC504	Q901	E - 4	D542	D - 1
IC505	Q902	F - 4	D550	
IC506	Q903	F - 4	D650	C - 12
IC507	Q904	F - 4	D652	B - 10
IC508	Q905	C - 4	D653	A - 11
IC510	Q806	F - 7	D654	A - 11
IC511	Q907	F - 7	D655	A - 11
IC512	Q908	G - 4	D680	B - 6
IC802	Q909	D - 3	D681	B - 6
IC803	Q910	G - 4	D682	B - 6
IC901	Q911	D - 4	D683	C - 6
IC903	Q912	D - 4	D684	C - 7
IC1601	Q913	E - 4	D801	F - 5
IC1603	Q914	F - 5	D804	G - 4
IC1604	Q1604	B - 7	D805	G - 4
IC1605	Q1605	A - 7	D806	F - 5
	Q1606	B - 7	D807	F - 6
	Q1670	B - 9	D808	F - 5
	Q1671	B - 9	D809	F - 5
	Q1672	B - 8	D810	F - 5
	Q1673	A - 7	D811	G - 5
	Q1674	C - 7	D812	F - 6
	Q1675	C - 7	D813	C - 4
	Q1676	C - 7	D814	E - 5
TRANSISTOR	Q504	C - 10	D816	E - 5
	Q505	D - 10	D901	E - 4
	Q506	D - 11	D902	F - 4
	Q508	B - 11	D903	F - 4
	Q509	B - 11	D906	F - 4
	Q510	A - 11	D907	D - 4
	Q511	C - 11	D505	C - 10
	Q512	B - 11	D506	B - 11
	Q513	C - 10	D507	B - 11
	Q514	C - 11	D508	F - 7
	Q515	C - 11	D509	G - 8
	Q516	G - 7	D510	F - 11
	Q517	A - 4	D511	F - 7
	Q518	A - 4	D512	G - 12
	Q519	C - 4	D513	E - 9
	Q520	C - 2	D515	G - 11
	Q521	C - 2	D516	E - 10
	Q522	C - 2	D517	B - 10
	Q523	C - 3	D519	B - 11
	Q530	B - 11	D520	D - 5
	Q531	A - 1	D521	C - 10
	Q532	A - 5	D522	C - 9
	Q801	E - 6	D523	F - 11
	Q802	F - 5	D524	C - 9
	Q803	E - 5	D525	C - 11
	Q804	F - 6	D526	B - 11
	Q805	E - 5	D530	E - 2
	Q806	F - 6	D531	E - 2
DIODE	Q807	F - 6		
VARIABLE RESISTOR	RV1601	B - 7		
	RV1602	A - 8		
	RV1603	A - 7		



**NOTE:**

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.



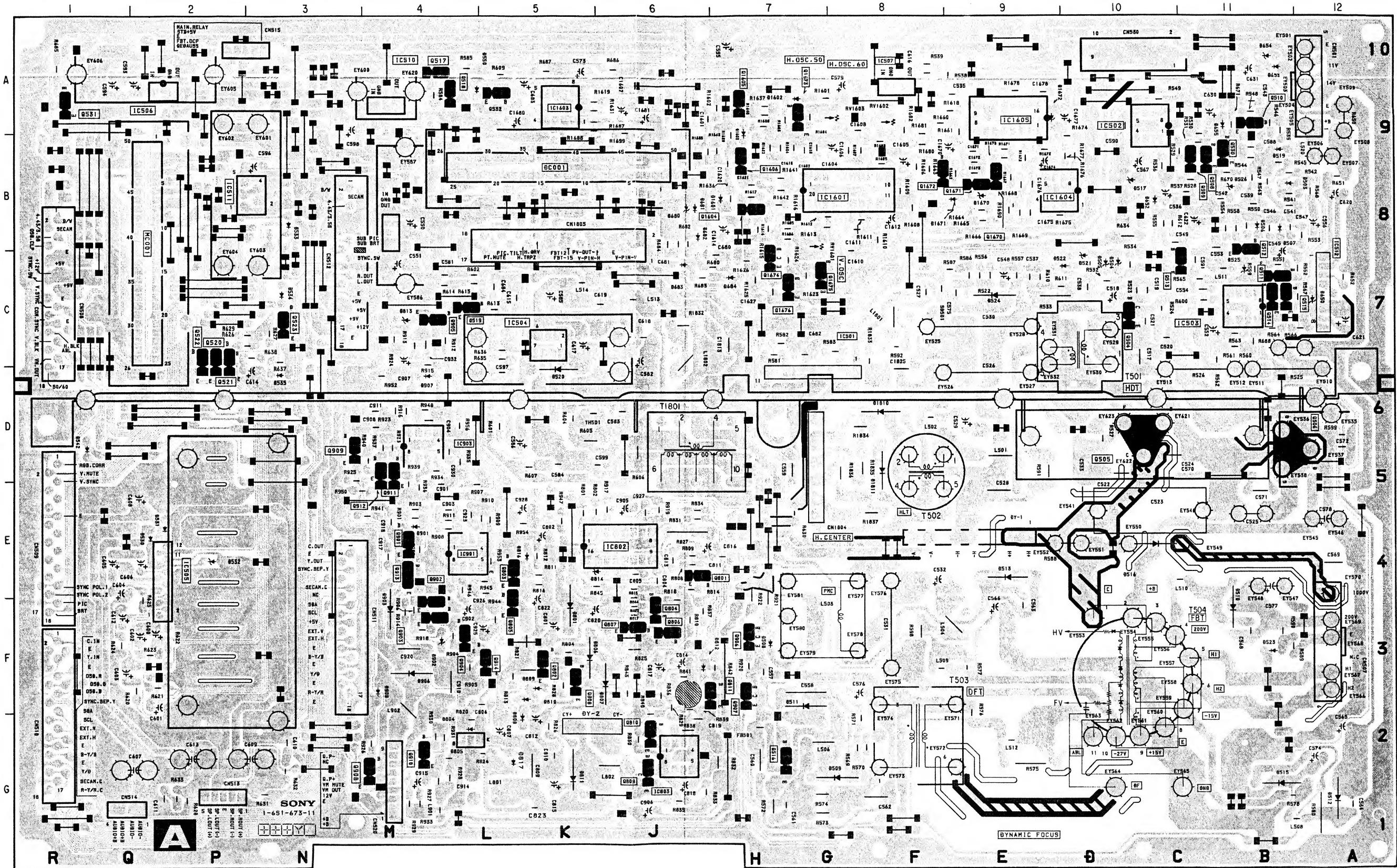
**A** SYNC OSC, DYNAMIC CONV, H. SFT. CONTROL,  
V. PARA. OUT, DQP DRIVE, H/V OUT,  
HV PROTECT, AUDIO AMP, DF DRIVE

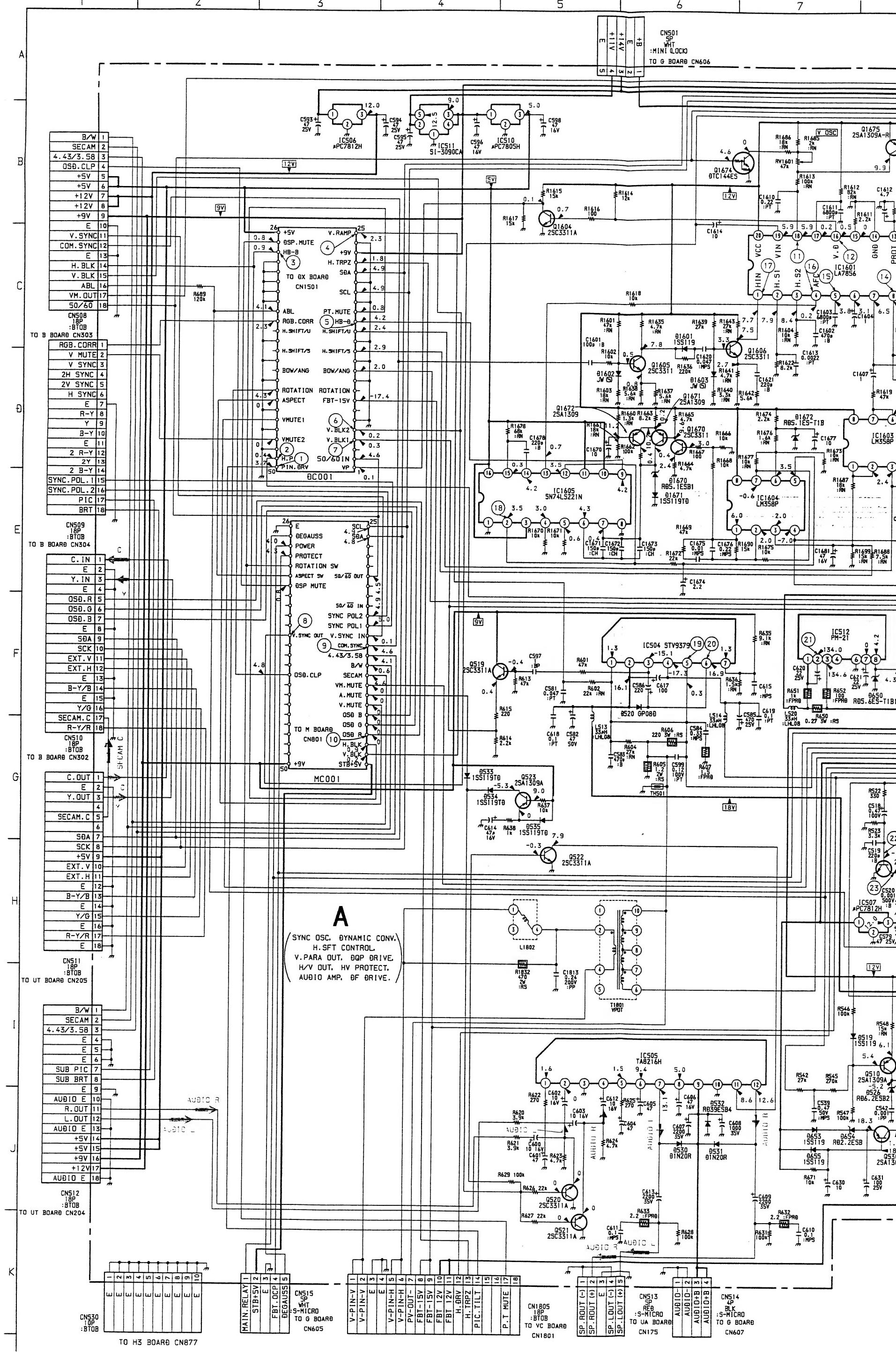
- A BOARD -

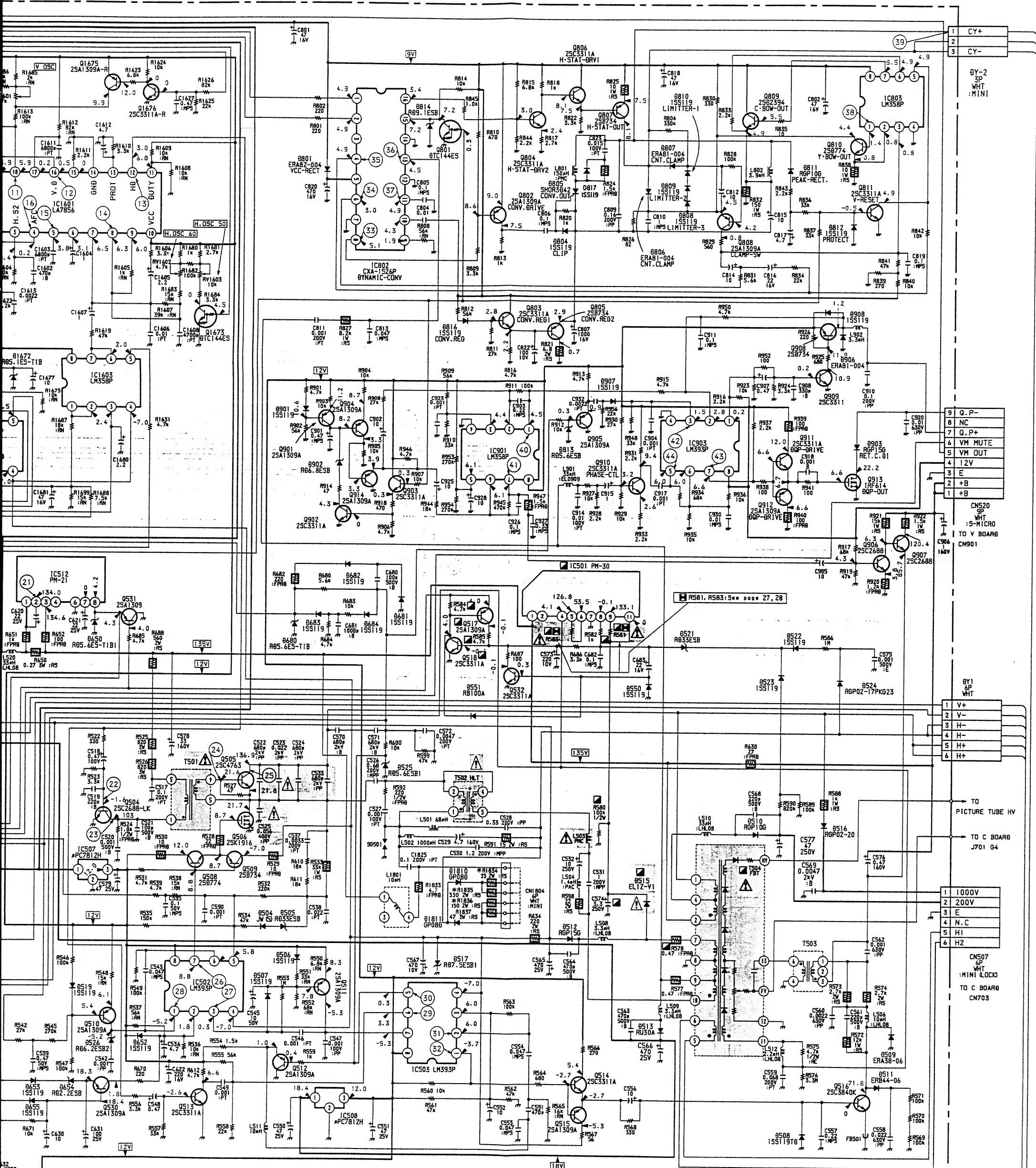
D532	E - 2
D533	B - 3
D534	C - 3
D535	D - 3
D542	D - 1
D550	
D650	C - 12
D652	B - 10
D653	A - 11
D654	A - 11
D655	A - 11
D680	B - 6
D681	B - 6
D682	B - 6
D683	C - 6
D684	C - 7
D801	F - 5
D804	G - 4
D805	G - 4
D806	F - 5
D807	F - 6
D808	F - 5
D809	F - 5
D810	F - 5
D811	G - 5
D812	F - 6
D813	C - 4
D814	E - 5
D816	E - 5
D901	E - 4
D902	F - 4
D903	F - 4
D906	F - 4
D907	D - 4
D908	F - 4
D1601	B - 7
D1670	B - 9
D1671	B - 9
D1672	
D1810	D - 8
D1811	D - 8

## VARIABLE RESISTOR

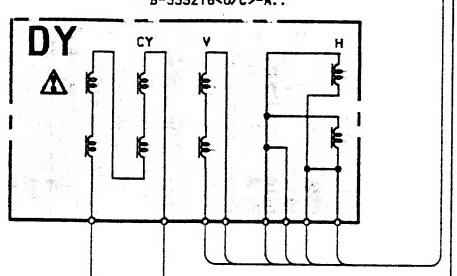
RV1601 B - 7  
RV1602 A - 8  
RV1603 A - 7

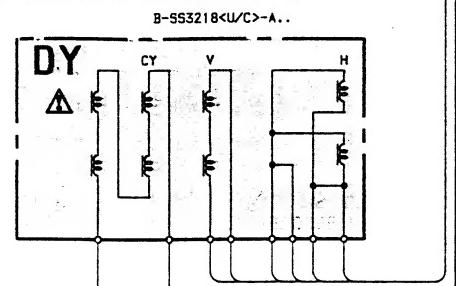
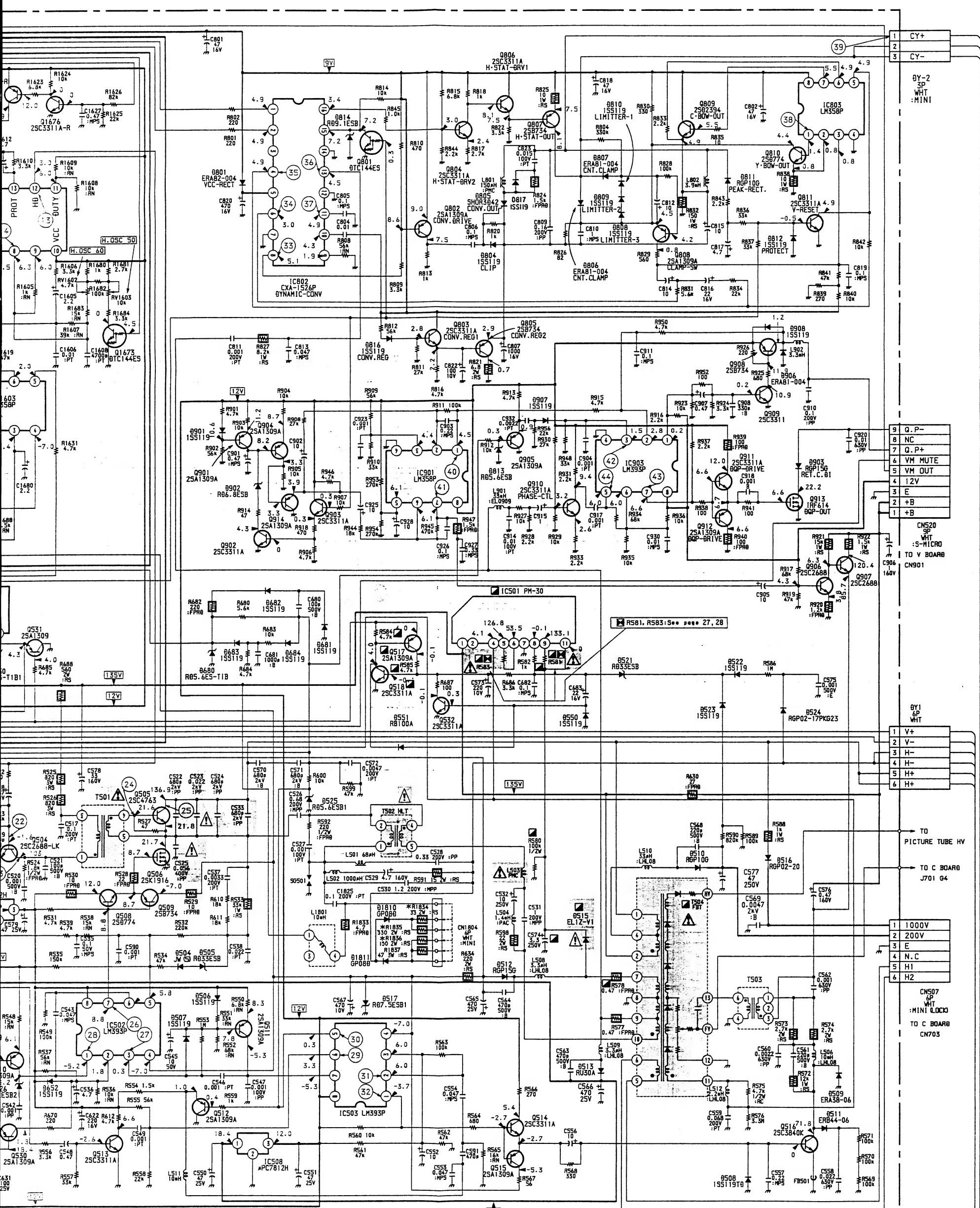






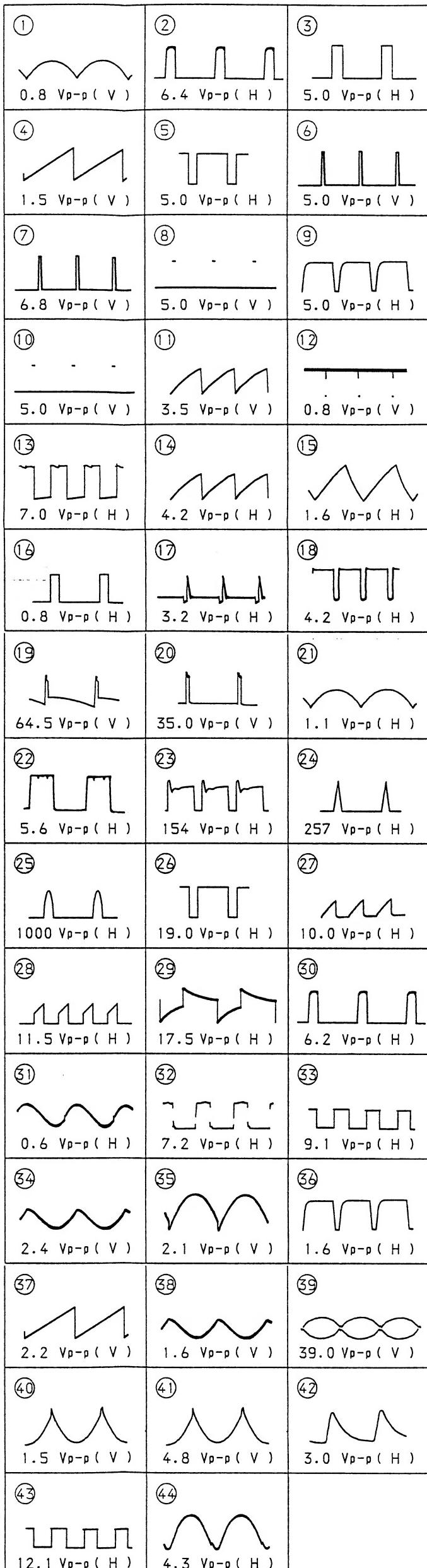
B-66321B(1)(C)-1





Ref. No.	Location
R1834	H - 11
R1835	H - 11
R1836	H - 11

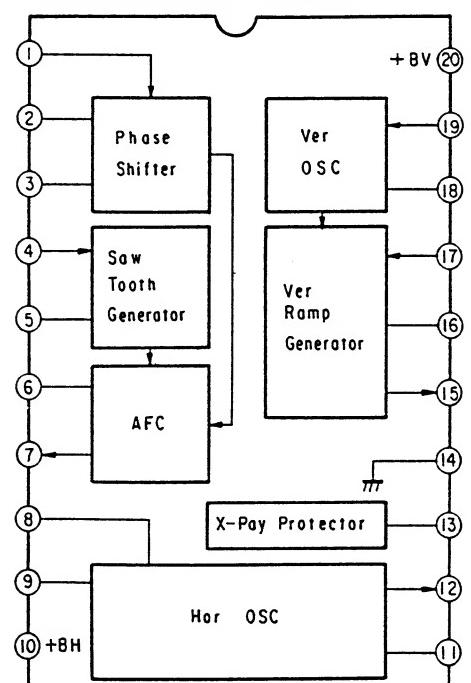
### A BOARD WAVEFORMS



### A BOARD

D505	LIMITTER
D506	TEMP CORR
D507	CLAMP
D508	PROTECT
D509	DF AMP
D510	200V RECT
D511	SNUBER
D512	-15V RECT
D513	15V RECT
D515	120V RECT
D516	G2 RECT
D517	REF VOLT
D519	TEMP CORR
D520	V BOOST
D521	PROTECT 4
D522	PROTECT 5
D523	PROTECT 6
D524	PEAK RECT
D525	H BLK 1
D526	DC SHIFT
D530	PROTECT
D531	PROTECT
D532	PROTECT
D533	SW
D534	SW
D535	SW
D542	ABL SW
D550	SW
D650	PROTECT
D652	PROTECT
D653	HOLD
D654	VOLT DROP
D655	RETURN
D680	H BLK 2
D681	RECT
D682	FP SW
D683	SW
D684	BP RECT
D801	VCC RECT
D804	CLIP
D805	CONT OUT
D806	CNT CLAMP
D807	CNT CLAMP
D808	LIMITTER 3
D809	LIMITTER 2
D810	LIMITTER 1
D811	PEAK RECT
D812	PROTECT
D813	PLS CLIP
D814	PROTECT
D816	CONV REG
D901	C SPL
D902	6.8V CLAMP
D903	RET C DI
D906	QP V OUT
D907	S SAW SW
D908	QP V OUT
D1601	SYNC FILTER
D1670	PROTECT
D1671	PROTECT
D1672	REF VOLT
D1810	H CENT 1
D1811	H CENT 2
IC501	HV PROTECT
IC502	PIN CORR
IC503	DF DRV
IC504	V OUT
IC505	AUDIO AMP
IC506	12V REG
IC507	12V REG
IC508	12V REG
IC510	5V REG
IC511	9V REG
IC512	+B PROTECT
IC802	DYNAMIC CONV
IC803	F.B.O.P. AMP
IC901	V PARA OUT
IC903	DOP-DRV
IC1601	SYNC OSC
IC1603	AFC CORR
IC1604	H SFT OUT
IC1605	H SFT OUT
Q504	H DRIVE
Q505	H OUT
Q506	PIN OUT
Q508	PIN DRV
Q509	PIN DRV
Q510	C SPL
Q511	I SOURCE
Q512	H PLS
Q513	INVERT
Q514	DF OUT 1
Q515	DF OUT 2
Q516	DF OUT
Q517	PROTECT 1
Q518	PROTECT 2
Q519	V BLK OUT
Q520	MUTE
Q521	MUTE
Q522	PROTECT
Q523	PROTECT
Q530	PROTECT
Q531	PROTECT SW
Q532	PROTECT 3
Q801	H SYNC SW
Q802	CONV DRIVE
Q803	CONV REG 1
Q804	H STAT DRV 2
Q805	CONV REG 2
Q806	J STAT DRV 1
Q807	H STAT OUT
Q808	CLAMP SW
Q809	C BOW OUT
Q810	Y. BOW OUT
Q811	V RESET
Q901	C SPL
Q902	V PULSE SW
Q903	BUFF
Q904	V SAW OUT
Q905	PLS OUT
Q906	DF SOURCE 1
Q907	DF SOURCE 2
Q908	QP V OUT
Q909	QP V DRV
Q910	PHASE CTL
Q911	DOP DRIVE
Q912	DOP DRIVE
Q913	DOP OUT
Q914	V SAW OUT
Q1604	V SYNC OUT
Q1605	SYNC DRIVE
Q1606	SYNC DRIVE
Q1670	H S DRV
Q1671	CURR OUT
Q1672	PROTECT
Q1673	FV SW
Q1674	FV SW
Q1675	SYNC SW
Q1676	SYNC SW

### A BOARD IC1601 LA7856



### A BOARD \* MARK

Ref. No.	Location	PVM-29500 (U/C) PVM-2950QM (AEP)	PVM-2950QM (AUS)
R1834	H-11	33 2W:RS	0.22 2W:RS
R1835	H-11	330 2W:RS	100 2W:RS
R1836	H-11	150 2W:RS	330 2W:RS

Schematic diagrams

← A board

## B BOARD

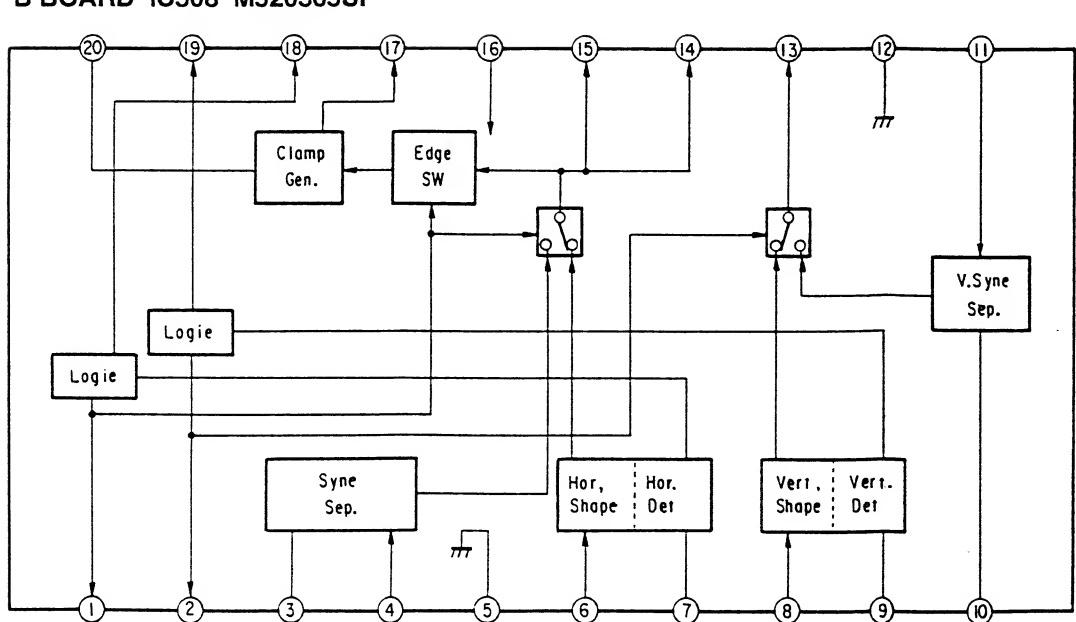
D303	PROTECT
D304	B/W SW
D306	B/W SW
D307	B/W SW
D308	PAL SW
D309	SECAM KILLEY SW
D310	PAL SW
D311	PAL SW
D312	PROTECT
D313	SYSTEM DETECT
D314	SYSTEM DETECT
D315	ABL
D316	
D317	PIC ABL
D318	PROTECT
D319	PROTECT
D320	PROTECT
D321	PROTECT
D322	PROTECT
D323	PROTECT
D324	PROTECT
D325	PROTECT
D326	PROTECT
D327	PROTECT
D328	PROTECT
D329	PROTECT
D331	SYSTEM SW
D333	PROTECT
D334	BLK SW
D335	BLK SW
D336	PROTECT
D337	NO SIGNAL SW
IC301	VIDEO SW
IC302	SYNC SW
IC303	SECAM DECODER
IC304	PAL/SECAM SW
IC305	SYSTEM SW
IC306	NT/PAL DECODER
IC307	PULSE GENERATOR
IC308	SYNC SEP
IC309	B/W DETECT
IC310	SYSTEM SW
IC311	D/A CONVERTER
IC312	RGB DECODER
IC313	VIDEO SW
IC316	D/A CONVERTER
IC318	EX OR
IC319	BLUE ONLY SW
IC320	AGING SW
Q301	C BUFF
Q302	Y BUFF
Q303	Y BUFF
Q304	Y BUFF

Q305	Y AMP
Q306	Y BUFF
Q307	Y BUFF
Q308	C BUFF
Q309	C BUFF
Q311	B/Y BUFF
Q312	R/Y BUFF
Q313	B/W SW
Q314	R/Y BUFF
Q315	B/Y BUFF
Q316	14M SW
Q317	17M SW
Q318	VCXO BUFF
Q319	R/Y BUFF
Q320	B-Y BUFF
Q321	BUFF
Q322	INVERT
Q323	V SYNC SEP
Q324	BUFF
Q325	BUFF
Q326	INVERT
Q327	SYNC SEP
Q328	SYNC BUFF
Q329	CLAMP
Q330	SYSTEM DETECT
Q331	BUFF
Q332	VM AMP
Q333	ABL BUFF
Q334	ABL AMP
Q335	ABL
Q336	PIC ABL
Q337	BRT ABL
Q338	R BUFF
Q339	R BUFF
Q340	G BUFF
Q341	G BUFF
Q342	B BUFF
Q343	B BUFF
Q344	INVERT
Q345	SECAM KILLER
Q346	RGB CORR
Q347	NT/PAL SW
Q348	INVERT
Q349	4.43/3.58 SW
Q352	VCXO BUFF
Q354	B GATE SW
Q355	INVERT
Q356	B-Y BUFF
Q357	R-Y BUFF
Q358	MATRIX SW
Q359	Y BUFF
Q360	SW
Q361	BLK SW
Q362	B GATE SW
Q363	NO SIGNAL SW

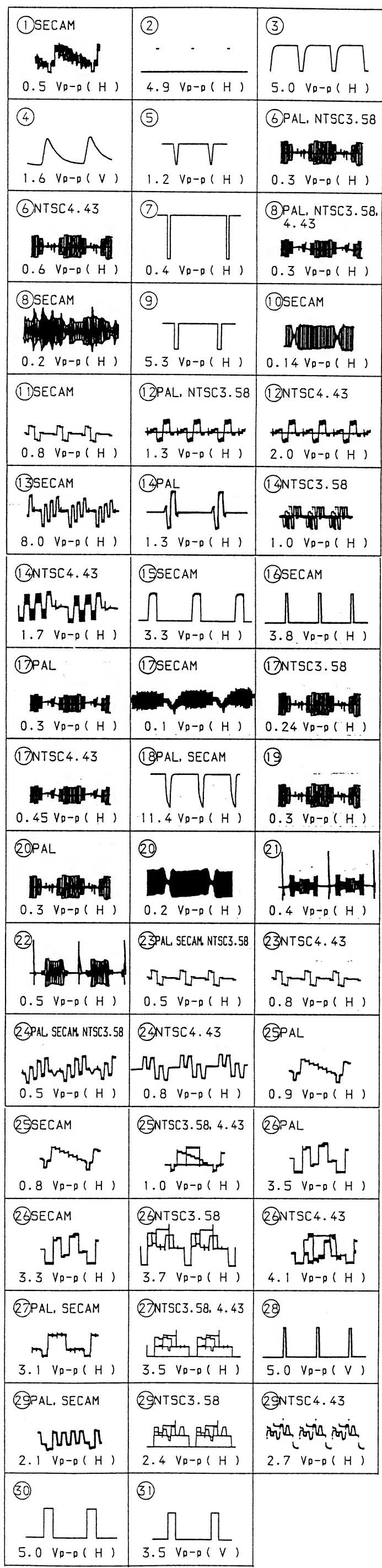
## B BOARD \* MARK

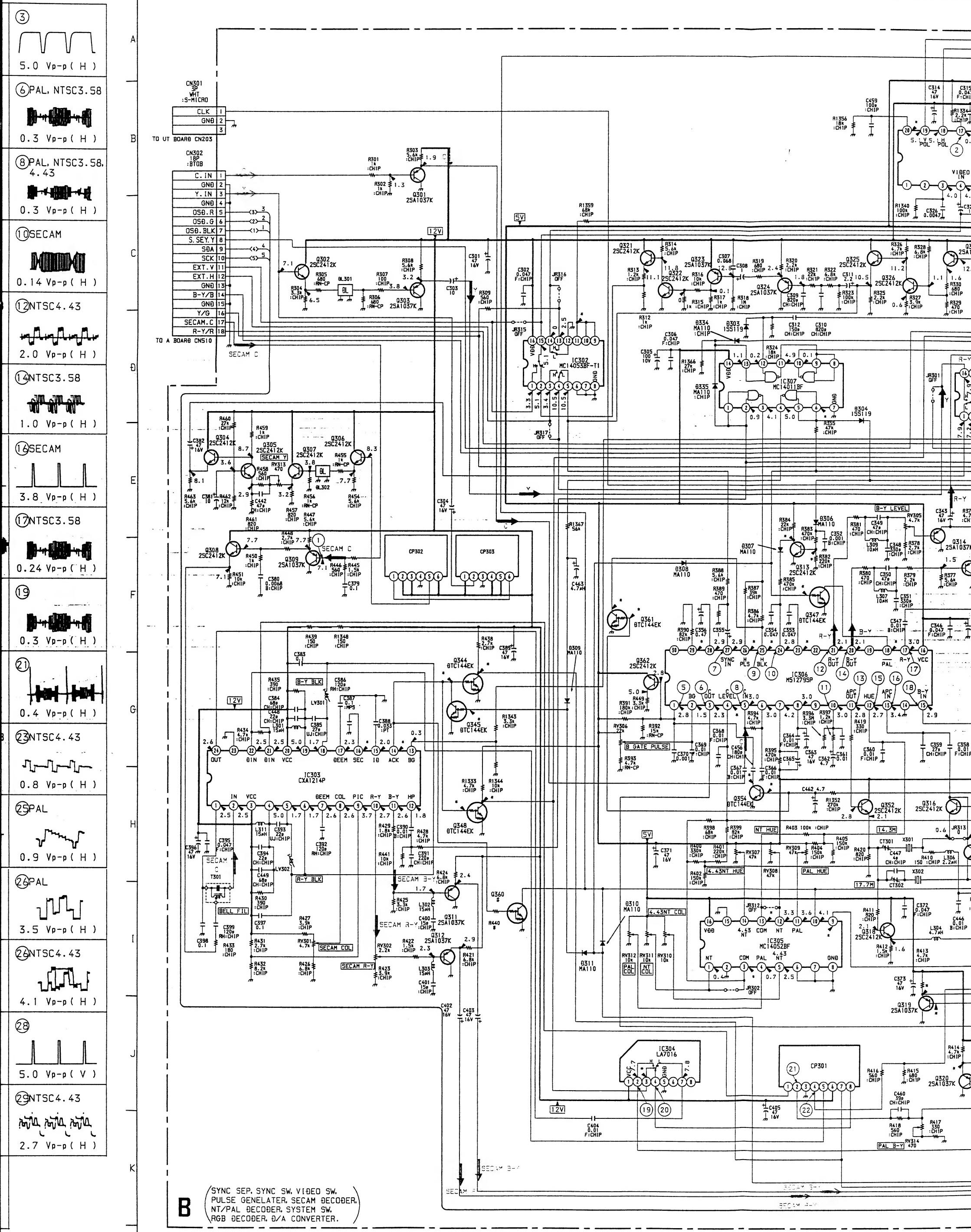
REF. NO	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC301 ⑩	11.0	0.1	11.0	11.0
⑪	11.0	0.1	11.0	11.0
⑫	11.0	0.1	11.0	11.0
IC302 ⑬	0.3	0.4	0.6	0.2
⑭	0.2	0.3	0.6	0.2
⑮	0.2	0.4	0.5	0.2
IC303 ⑯	0	3.7	0	0.1
⑰	3.5	2.8	3.5	3.9
⑱	0.8	0.7	0.8	2.5
⑲	4.1	4.1	4.1	0.3
⑳	3.6	3.6	3.6	2.6
IC306 ㉑	2.5	1.1	2.5	3.0
㉒	0	0	0	0.9
㉓	4.1	0.1	4.1	4.1
㉔	3.7	3.7	3.7	4.1
㉕	1.2	0.9	0.9	0.6
IC307 ㉖	1.1	4.1	1.1	0.2
㉗	1.1	4.1	1.1	0.2
IC308 ㉘	0.7	1.2	1.2	1.2
㉙	2.7	5.2	6.2	6.2
㉚	3.0	3.0	3.0	2.5
㉛	2.1	3.4	3.4	3.4
IC309 ㉜	9.6	10.6	0.6	0.4
㉝	2.5	1.1	2.6	3.0
㉞	1.7	1.7	1.7	2.1
IC310 ㉟	3.5	3.7	3.4	2.3
㉟	1.5	1.5	1.5	2.9
㉟	5.0	5.0	5.0	2.9
㉟	4.0	4.1	4.0	0.3
㉟	4.1	4.1	4.0	0.3
㉟	5.0	5.0	4.9	2.9
㉟	1.8	1.8	1.8	2.9
IC311 ㉟	0	11.9	0.6	0.6
㉟	0.2	11.1	0.2	0.2
㉟	4.6	4.1	4.1	4.6
㉟	0	11.9	4.6	4.6
㉟	4.6	0.1	4.6	4.6
㉟	4.6	0	4.6	4.6
㉟	0	0	0	8.0
㉟	4.9	3.4	0.1	4.9
㉟	4.9	4.1	4.9	4.5
IC312 ㉟	6.4	6.7	6.7	7.6
㉟	6.8	7.5	7.6	8.2
㉟	7.0	7.4	7.4	8.6
IC316 ㉟	0	2.5	0	0
㉟	0.4	0.9	0.4	0.4
㉟	1.9	0.2	0	0
㉟	7.4	0.2	7.4	7.4
㉟	1.8	0	1.8	1.8
㉟	5.7	0	5.7	5.7
㉟	0	2.4	4.9	4.9
㉟	0	2.5	4.9	4.9
IC318 ㉟	4.8	4.8	4.7	1.0
㉟	5.0	0	5.0	5.0
㉟	3.7	3.5	3.4	4.6
㉟	0.4	4.6	0.5	0.2
㉟	0	0.3	0.3	0.3
㉟	0	0.3	0.3	0.3
㉟	0	0.6	0.7	0.6
IC319 ㉟	0	0.9	0.9	2.8
Q313 B	-0.4	0.5	-0.5	0.1
C	4.9	0	4.9	4.9
Q319 B	1.8	1.8	1.8	1.9
E	2.4	2.4	2.4	3.5
Q320 B	1.5	1.5	1.5	1.0
E	2.1	2.1	2.1	0
Q324 B	1.8	1.8	1.8	1.8
Q330 B	2.0	0	1.9	0.9
C	4.9	0.3	4.9	0
E	4.8	4.1	4.8	4.6
Q344 B	0	3.7	0	0
C	11.0	0.1	11.0	11.0
Q345 B	2.4	0.7	2.4	2.4
C	0	3.7	0	0
Q347 B	4.0	4.1	4.1	0.3
C	0	0	0	0.9
Q348 B	0	3.7	0	0
C	4.6	0.1	0	4.6
Q354 C	0.8	0	0.9	0.7
E	0	1.8	0	0
Q356 B	3.8	3.7	4.0	2.3
E	5.0	5.0	5.0	2.9
Q357 B	3.8	3.8	3.6	2.3
E	5.0	5.0	5.0	2.9
Q358 C	0.9	1.2	1.2	0.5
Q361 B	0.1	1.8	0.2	0.1
C	4.1	0.1	4.1	4.1
Q363 B	0.5	0.5	0.4	0.1
C	2.6	1.1	2.6	3.0

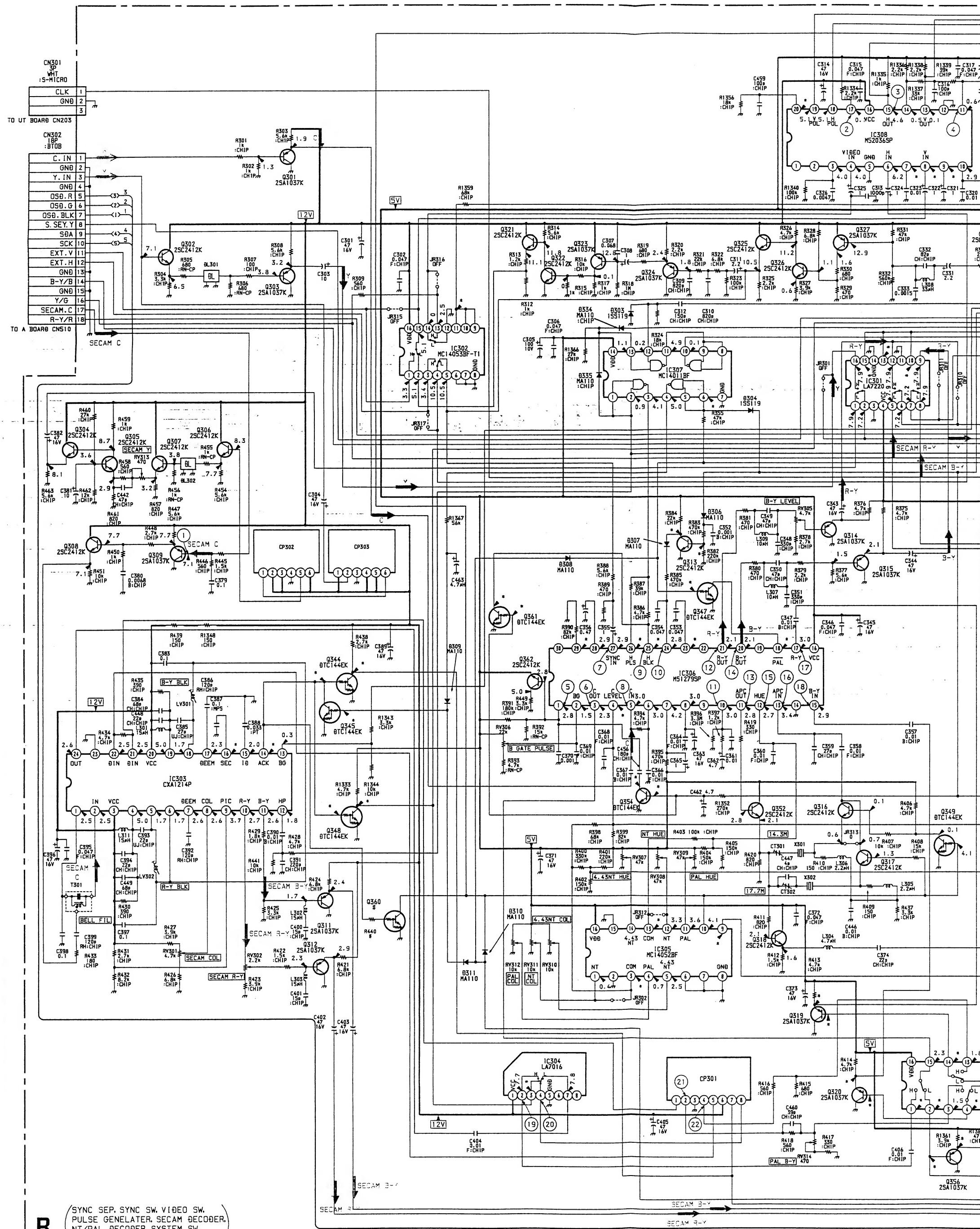
## B BOARD IC308 M520365SP



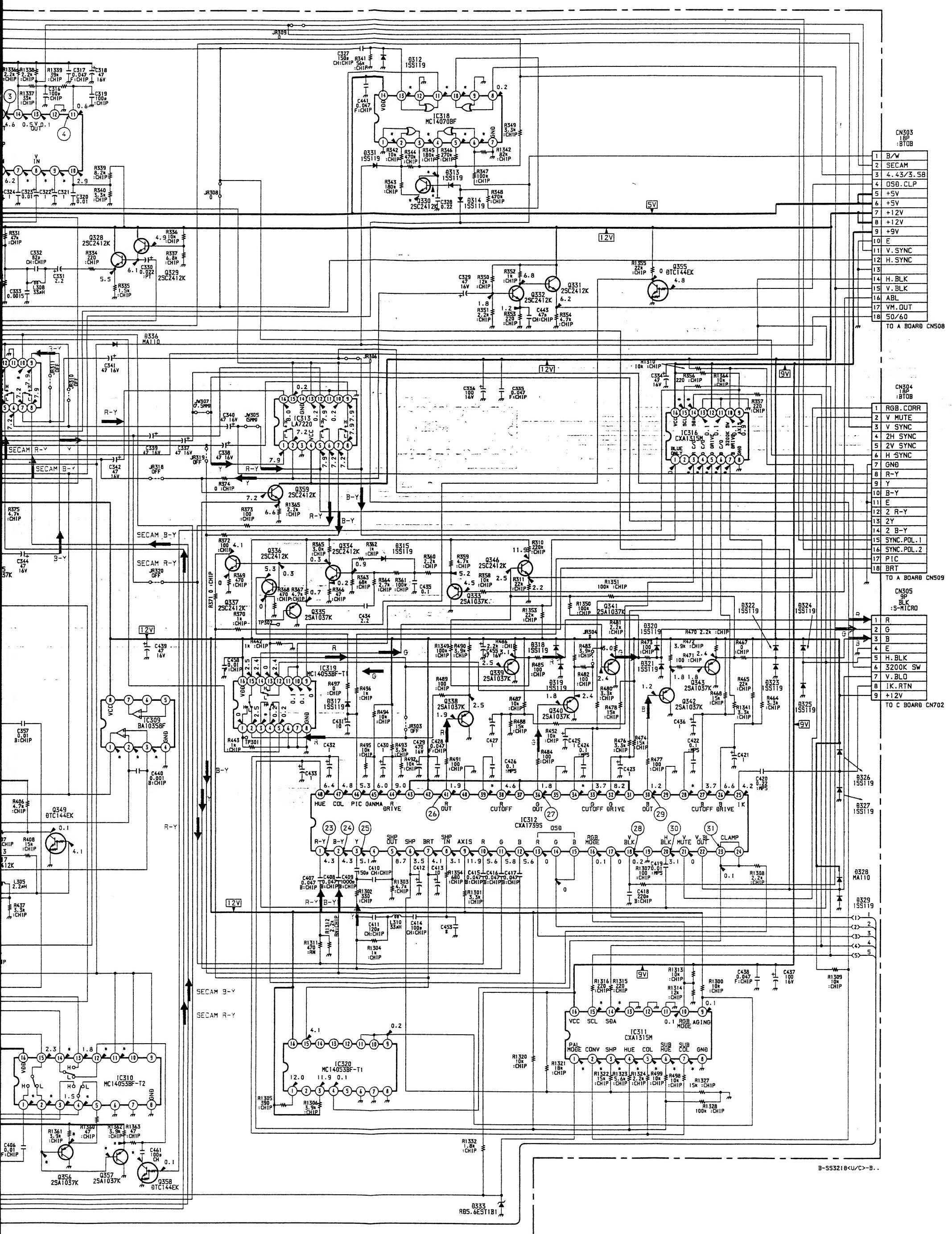
## • B BOARD WAVEFORMS





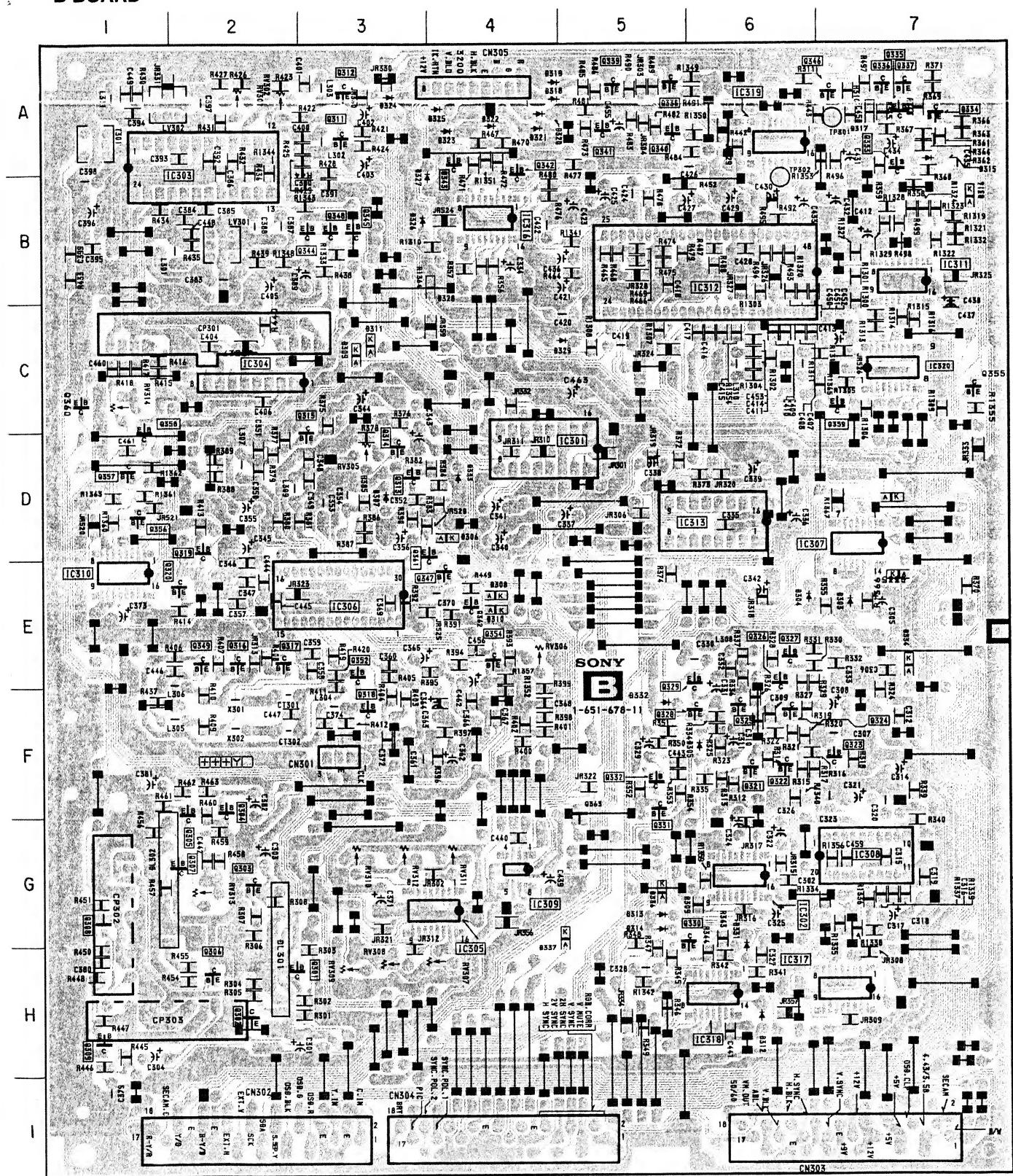


**B** SYNC SEP, SYNC SW, VIDEO SW,  
PULSE GENERATOR, SECAM DECODER,  
NT/PAL DECODER, SYSTEM SW,  
RGB DECODER, D/A CONVERTER.



**B** [SYNC SEP, SYNC SW, VIDEO SW, PULSE GENERATOR,  
SECAM DECODER, NT/PAL DECODER, SYSTEM SW,  
RGB DECODER, D/A CONVERTER,

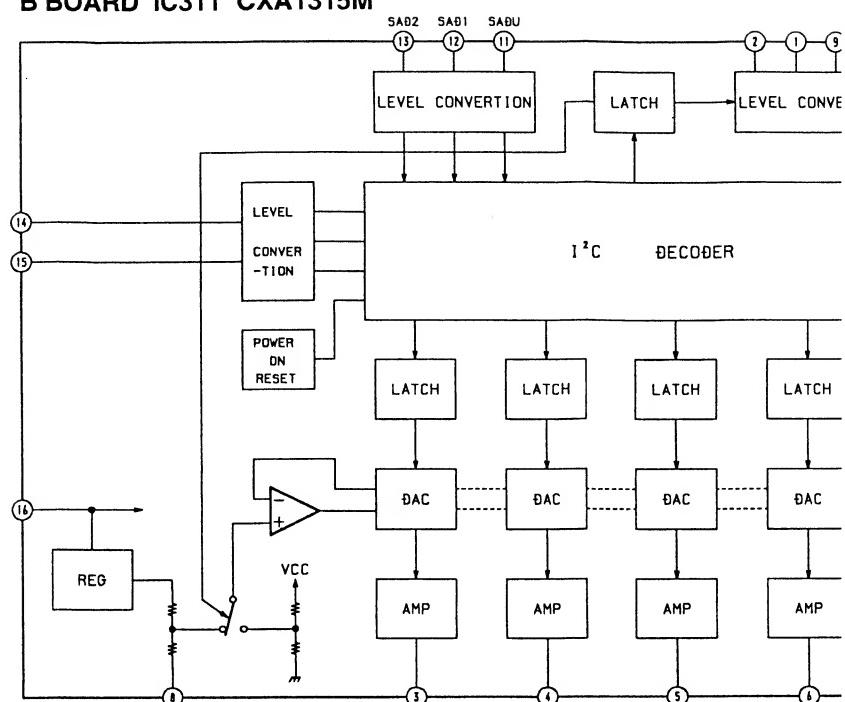
- B BOARD -

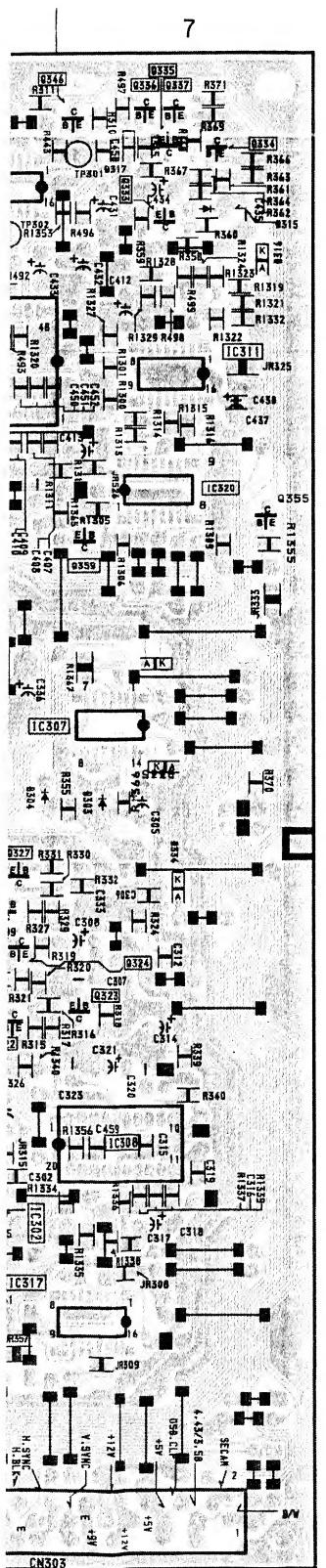


B BOARD

IC			
IC301	D - 4	Q332	F - 5
IC302	G - 6	Q333	A - 7
IC303	A - 1	Q334	A - 7
IC304	C - 2	Q335	A - 7
IC305	G - 3	Q336	A - 7
IC306	E - 3	Q337	A - 7
IC307	D - 7	Q338	A - 5
IC308	G - 7	Q339	A - 5
IC309	G - 4	Q340	A - 5
IC310	E - 1	Q341	A - 5
IC311	B - 7	Q342	A - 4
IC312	B - 5	Q343	A - 4
IC313	D - 5	Q344	B - 2
IC316	B - 4	Q345	B - 3
IC318	H - 6	Q346	A - 6
IC319	A - 6	Q347	E - 3
IC320	C - 7	Q348	B - 3
		Q349	E - 2
		Q350	RV307
		Q351	H - 3
		Q352	RV308
		Q353	H - 3
		Q354	RV309
		Q355	H - 3
		Q356	RV310
		Q357	G - 3
		Q358	RV312
		Q359	G - 2
		Q360	RV313
		Q361	C - 1
		Q362	C - 1
VARIABLE RESISTOR			
RV301	A - 2		
RV302	A - 2		
RV305	D - 3		
RV306	E - 4		
RV307	H - 3		
RV308	H - 3		
RV309	H - 3		
RV310	G - 3		
RV311	G - 4		
RV312	G - 3		
RV313	G - 2		
RV314	C - 1		
TRANSISTOR			
Q301	H - 2		
Q302	H - 2		
Q303	G - 2		
Q304	F - 2		
Q305	F - 1		
Q306	H - 2		
Q307	G - 1		
Q308	G - 1		
Q309	H - 1		
DIODE			
D303	E - 7		
D304	E - 6		
D306	D - 3		
D307	D - 3		
D308	E - 4		
D309	C - 3		
D310	E - 4		
D311	C - 3		
D312	H - 6		
D313	G - 5		
D314	G - 5		
D315	A - 7		
D316	B - 7		
D317	A - 7		
D318	A - 4		
D319	A - 4		
D320	A - 4		
D321	A - 4		
D322	A - 4		
D323	A - 3		
D324	A - 3		

B BOARD IC311 CXA1315M

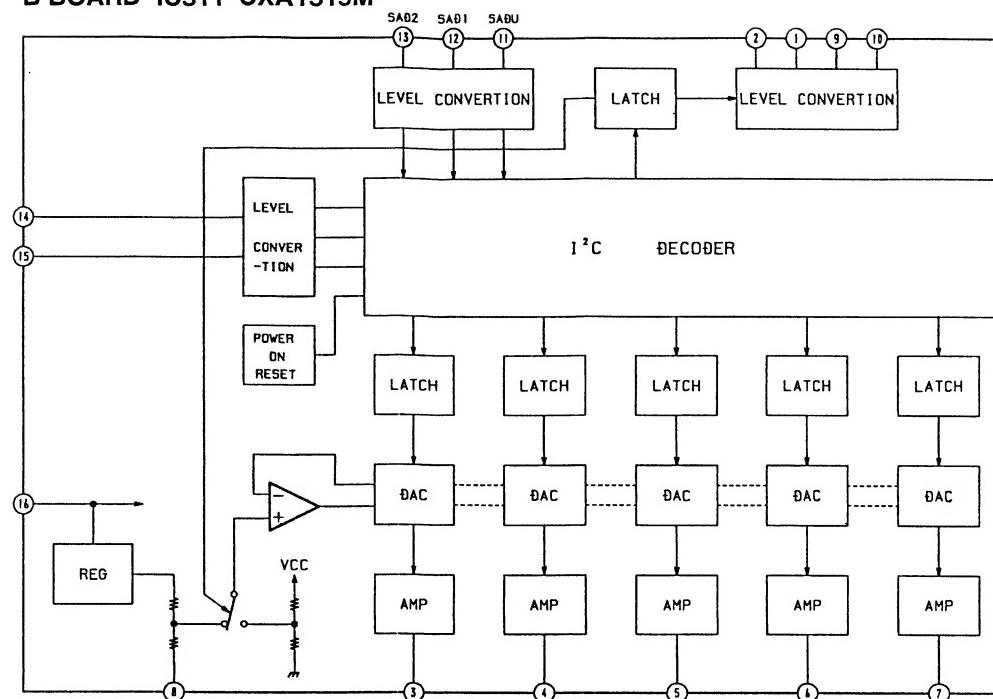




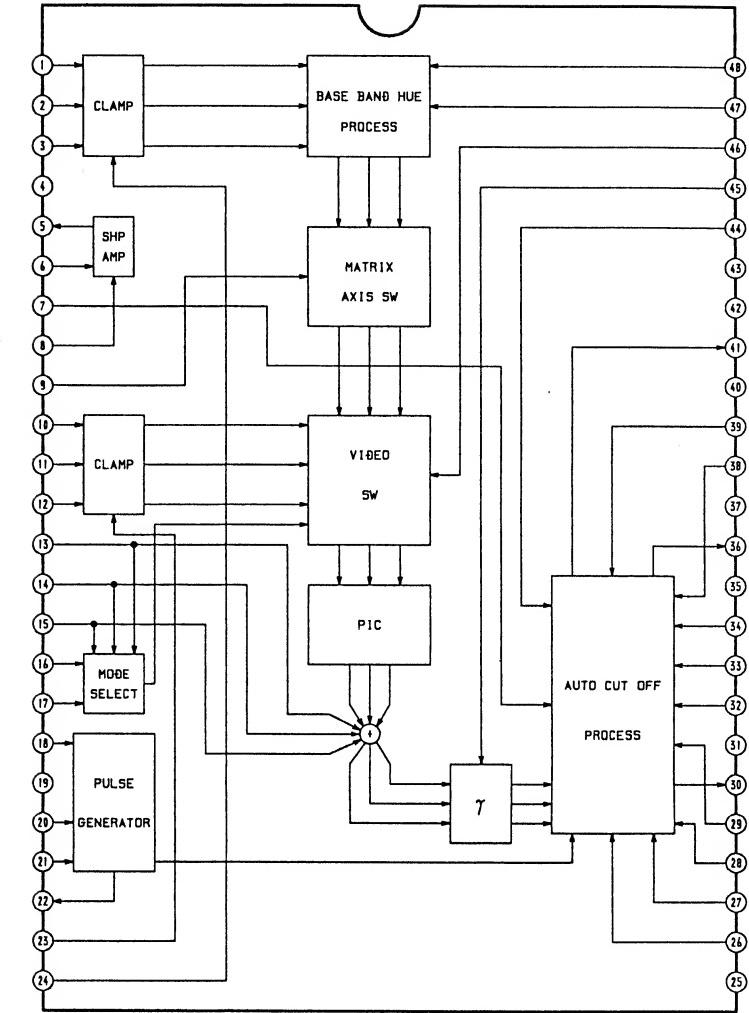
B BOARD

IC			
IC301	D - 4	Q332	F - 5
IC302	G - 6	Q333	A - 7
IC303	A - 1	Q334	A - 7
IC304	C - 2	Q335	A - 7
IC305	G - 3	Q336	A - 7
IC306	E - 3	Q337	A - 7
IC307	D - 7	Q338	A - 5
IC308	G - 7	Q339	A - 5
IC309	G - 4	Q340	A - 5
IC310	E - 1	Q341	A - 5
IC311	B - 7	Q342	A - 4
IC312	B - 5	Q343	A - 4
IC313	D - 5	Q344	B - 2
IC316	B - 4	Q345	B - 3
IC318	H - 6	Q346	A - 6
IC319	A - 6	Q347	E - 3
IC320	C - 7	Q348	B - 3
<b>VARIABLE RESISTOR</b>			
RV301	A - 2	RV302	A - 2
RV305	D - 3	RV306	E - 4
RV307	H - 3	RV308	H - 3
RV309	H - 3	RV310	G - 3
RV311	G - 4	RV312	G - 3
RV313	G - 2	RV314	C - 1
<b>TRANSISTOR</b>			
Q301	H - 2	Q302	H - 2
Q303	G - 2	Q304	F - 2
Q305	F - 1	Q306	H - 2
Q307	G - 1	Q308	G - 1
Q309	H - 1		
<b>DIODE</b>			
D303	E - 7	D304	E - 6
D306	D - 3	D307	D - 3
D308	E - 4	D309	C - 3
D310	E - 4	D311	C - 3
D312	H - 6	D313	G - 5
D314	G - 5	D315	A - 7
D316	B - 7	D317	A - 7
D318	A - 4	D319	A - 4
D320	A - 4	D321	A - 4
D322	A - 4	D323	A - 3
D324	A - 4	D325	A - 3
D326	B - 3	D327	A - 3
D328	B - 3	D329	C - 4
D330	D - 4	D331	G - 6
D332	D - 4	D333	D - 4
D334	E - 7	D335	E - 7
D336	E - 7	D337	E - 7
D338	G - 5	D339	G - 5
D340	A - 3	D341	A - 3

B BOARD IC311 CXA1315M

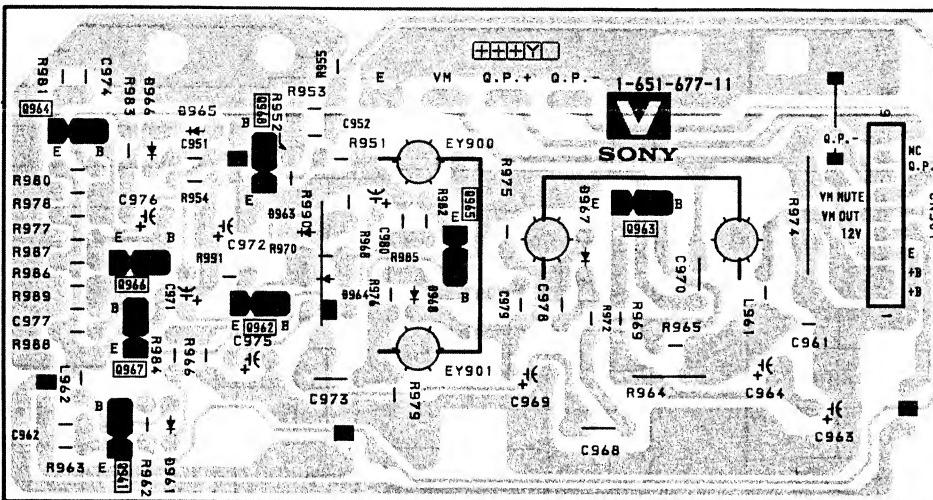


B BOARD IC312 CXA1739S



**V** [VM AMP] **DX** [SYSTEM CONT] **M** [CPU, MEM]

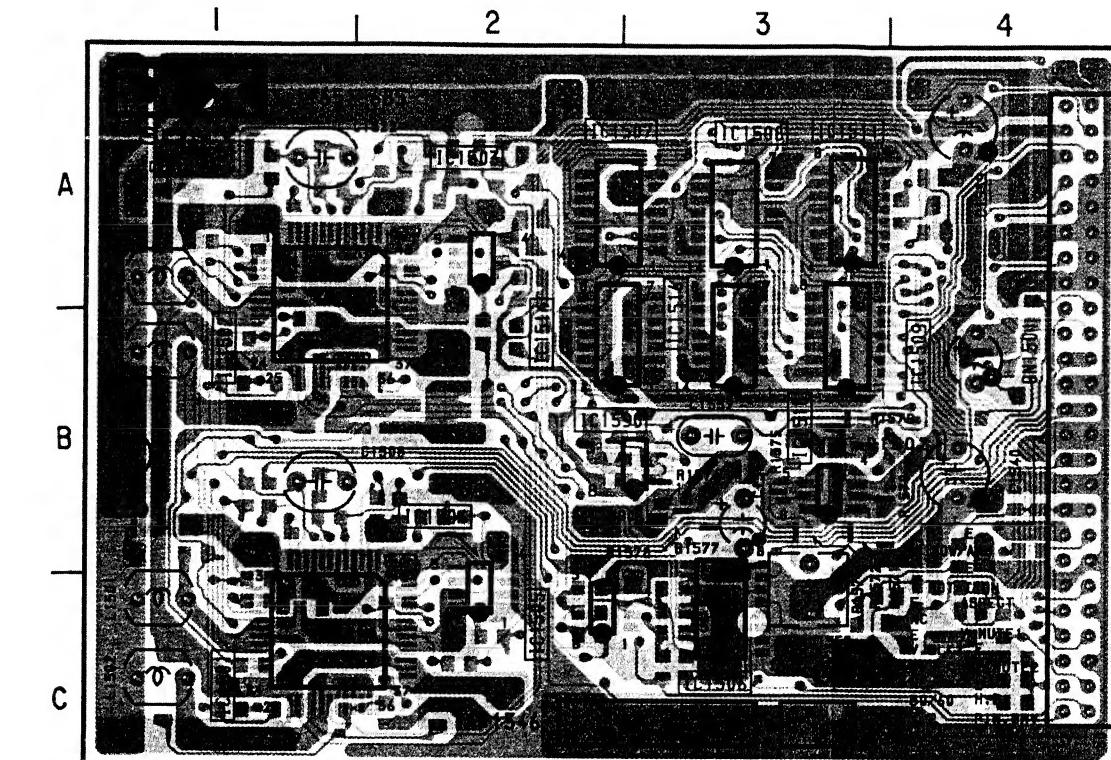
## - V BOARD -



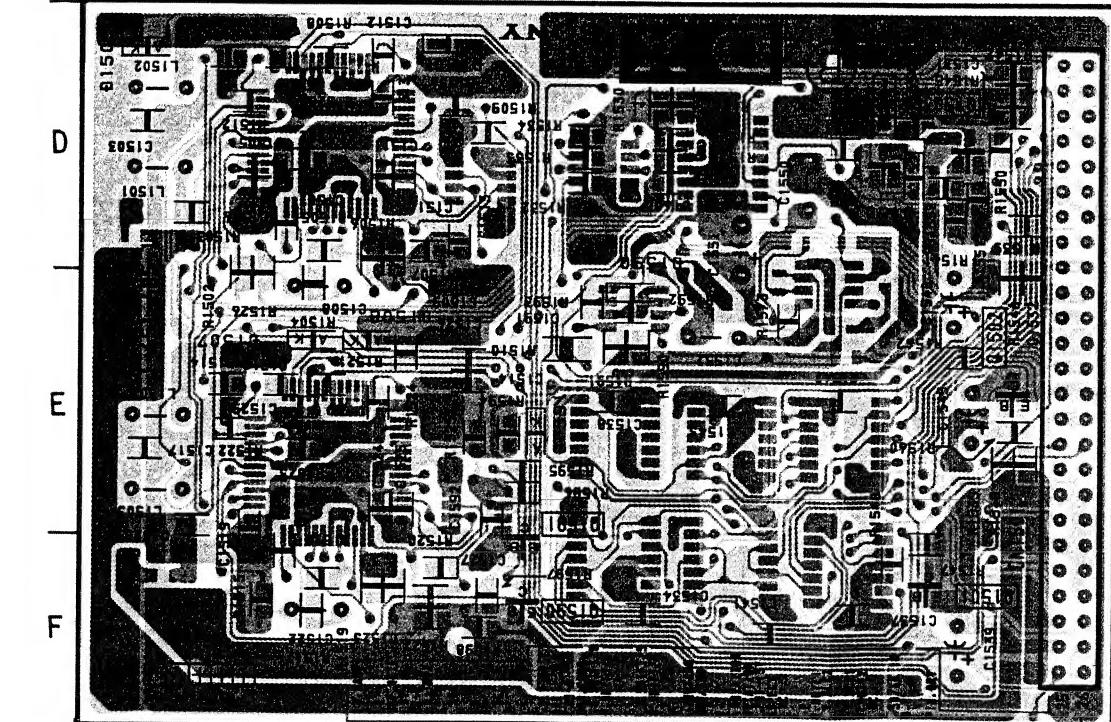
## DX BOARD

IC	
IC1501	C - 1
IC1502	B - 1
IC1503	A - 2
IC1504	B - 2
IC1505	C - 2
IC1506	C - 3
IC1507	A - 3
IC1508	A - 3
IC1509	B - 3
IC1511	A - 3
IC1514	B - 3
IC1516	B - 3
IC1518	B - 3
IC1590	B - 3
<b>DIODE</b>	
Q1501	F - 4
Q1502	E - 4
Q1503	D - 4
Q1504	D - 3
Q1590	F - 2
Q1591	E - 2
<b>TRANSISTOR</b>	
D1501	D - 4
D1502	B - 3
D1505	D - 1
D1506	D - 2
D1507	E - 1
D1508	E - 2
D1509	E - 3
D1591	E - 2

## - DX BOARD - (Component Side)



&lt;Conductor Side&gt;



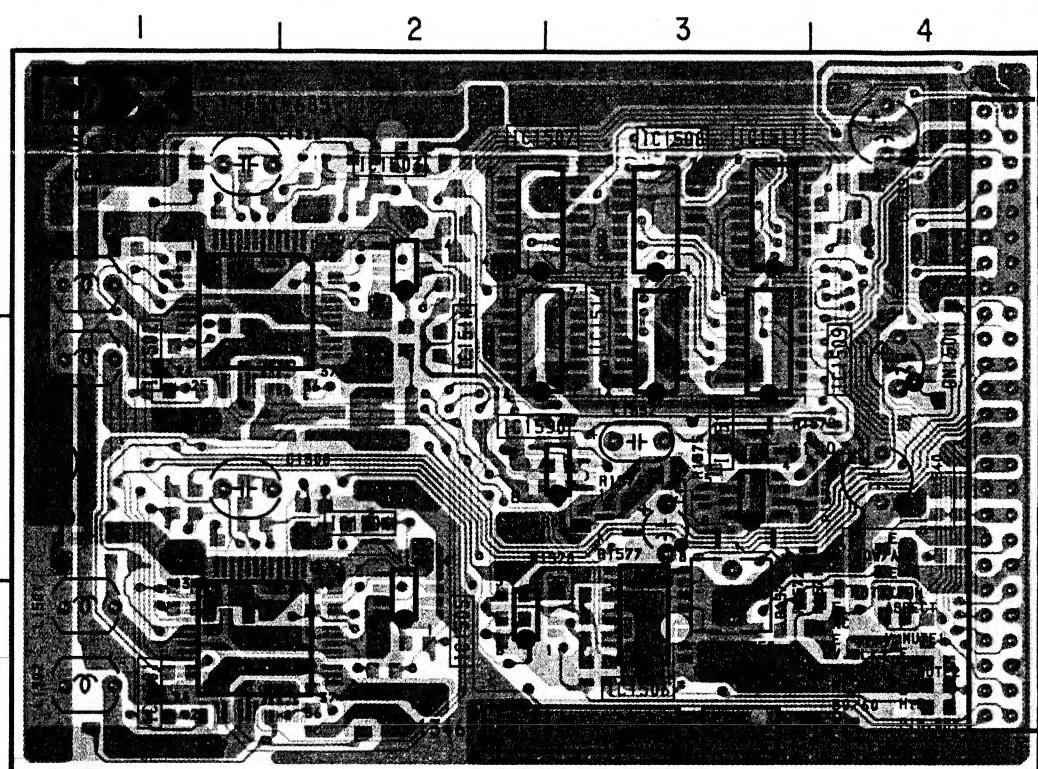
## M BOARD

IC	
IIC801	A - 2, E - 2
C802	B - 4
IIC803	B - 4
IIC804	B - 1
IIC805	B - 3
IIC806	C - 2
<b>DIODE</b>	
D801	A - 4
D802	E - 3
D803	A - 4
D804	E - 3
D805	D - 1
D806	D - 1
D807	D - 1
D808	C - 1
D809	C - 3
D810	D - 1
D811	D - 3
D812	E - 3
D813	D - 3
D814	E - 3

## Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

- DX BOARD - &lt;Component Side&gt;

**DX BOARD****IC**

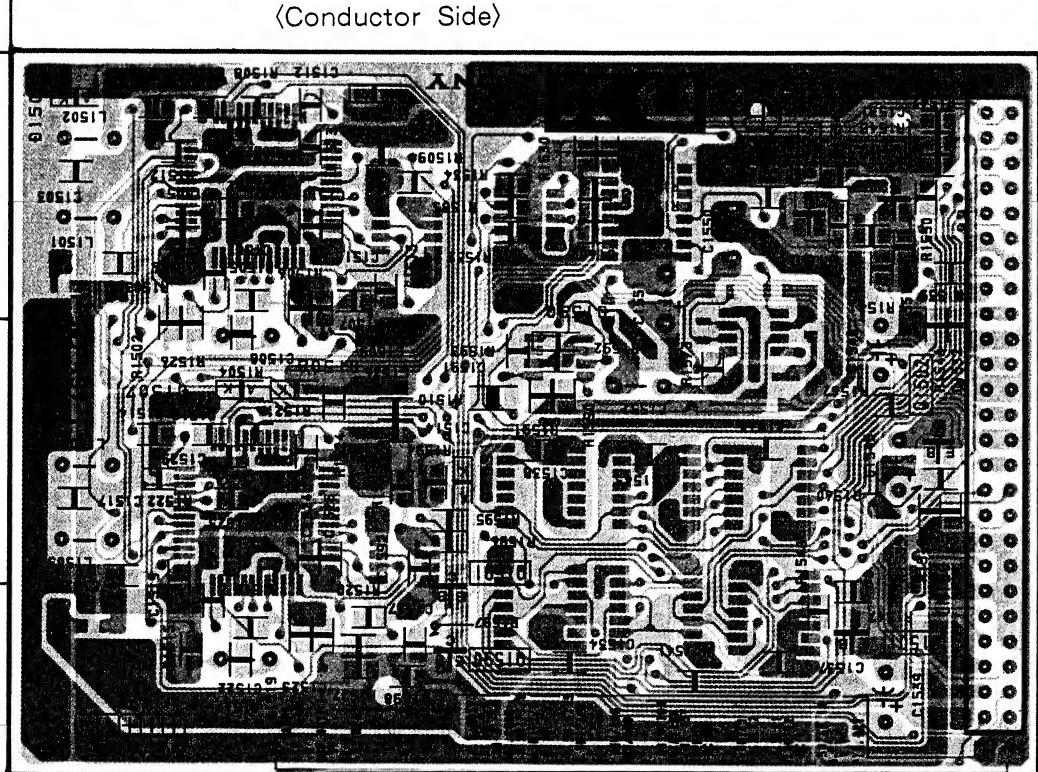
IC1501	C - 1
IC1502	B - 1
IC1503	A - 2
IC1504	B - 2
IC1505	C - 2
IC1506	C - 3
IC1507	A - 3
IC1508	A - 3
IC1509	B - 3
IC1511	A - 3
IC1514	B - 3
IC1516	B - 3
IC1518	B - 3
IC1590	B - 3

**DIODE**

Q1501	F - 4
Q1502	E - 4
Q1503	D - 4
Q1504	D - 3
Q1590	F - 2
Q1591	E - 2

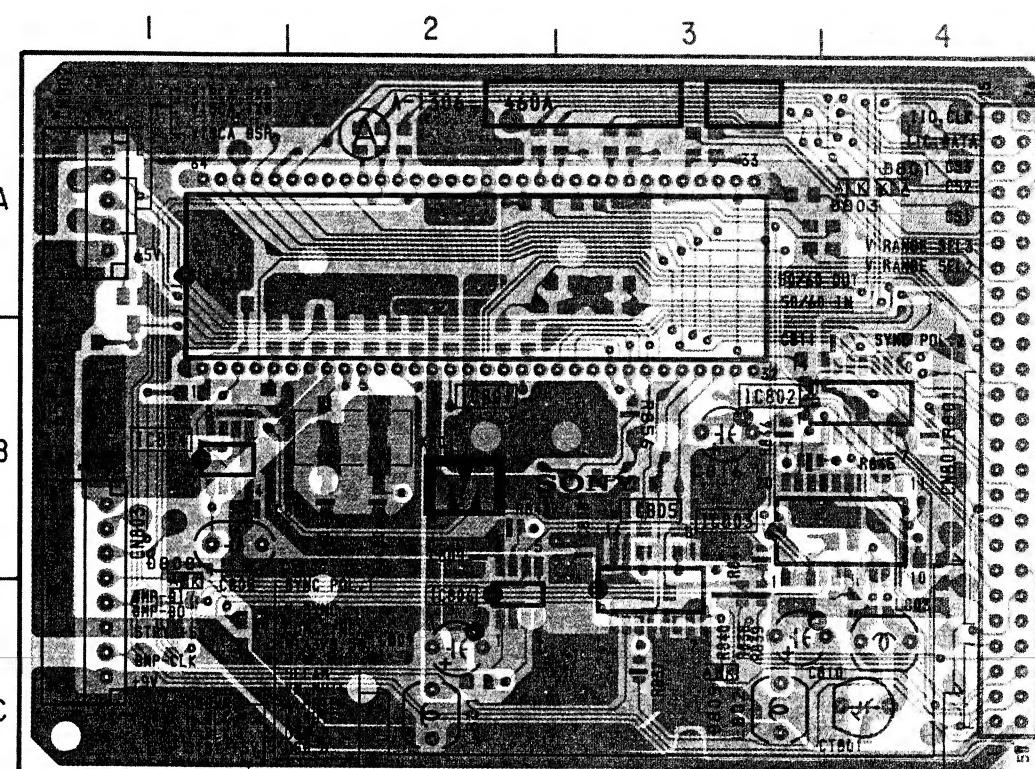
**TRANSISTOR**

D1501	D - 4
D1502	B - 3
D1505	D - 1
D1506	D - 2
D1507	E - 1
D1508	E - 2
D1590	E - 3
D1591	E - 2

**Note :**

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

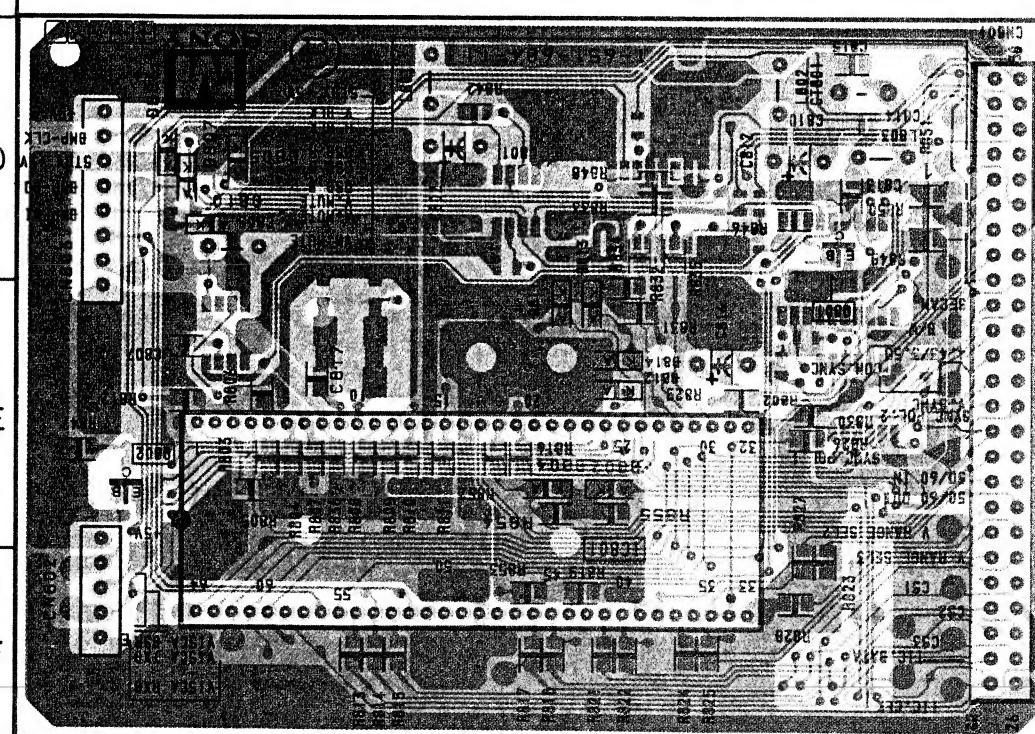
- M BOARD - &lt;Component Side&gt;

**M BOARD****IC**

IIC801	A - 2, E - 2
C802	B - 4
IIC803	B - 4
IIC804	B - 1
IIC805	B - 3
IIC806	C - 2

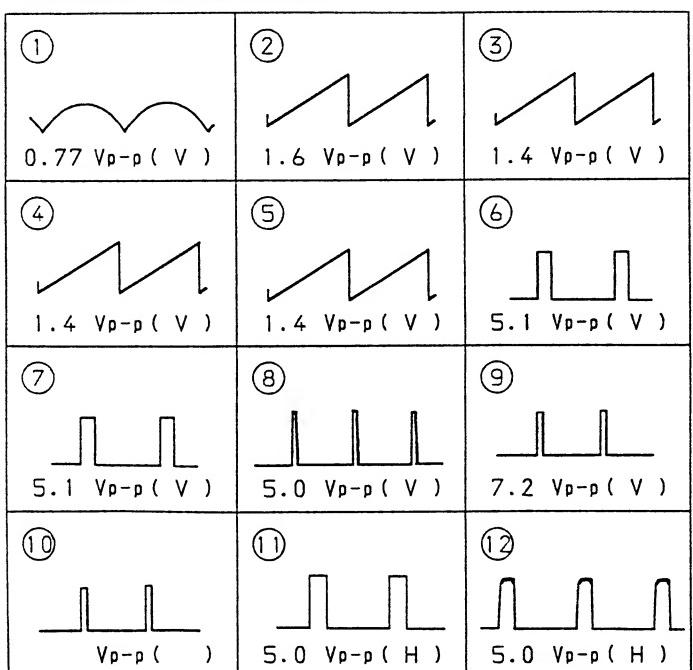
**DIODE**

D801	A - 4
D802	E - 3
D803	A - 4
D804	E - 3
D805	D - 1
D806	D - 1
D807	D - 1
D808	C - 1
D809	C - 3
D810	D - 1
D811	D - 3
D812	E - 3
D813	D - 3
D814	E - 3

**Note :**

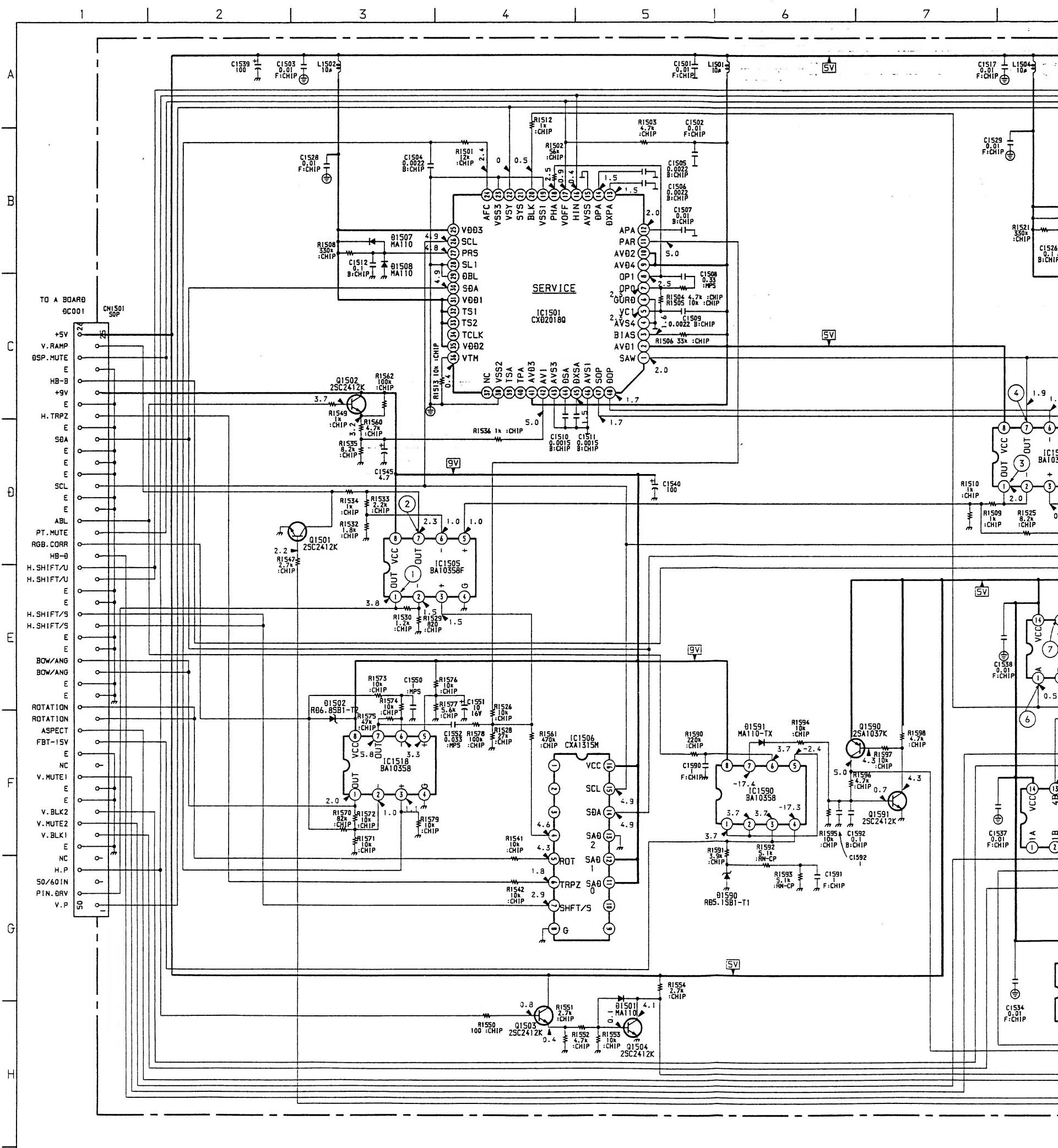
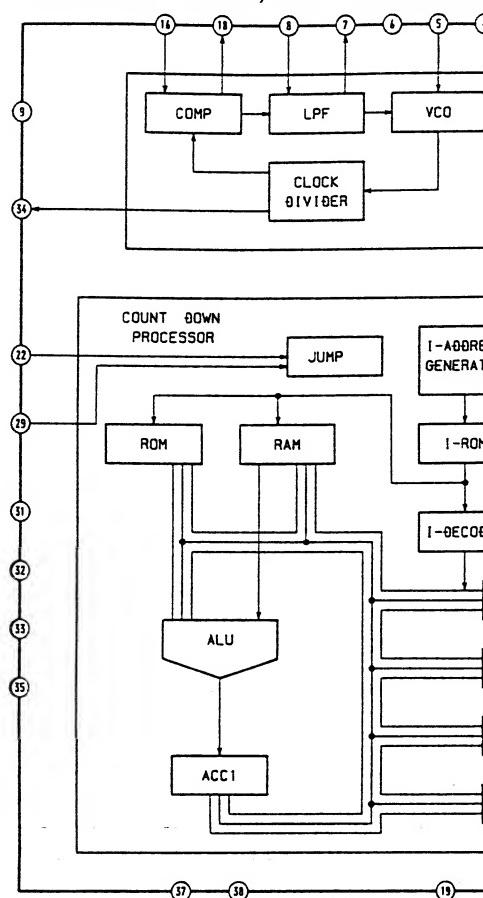
- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

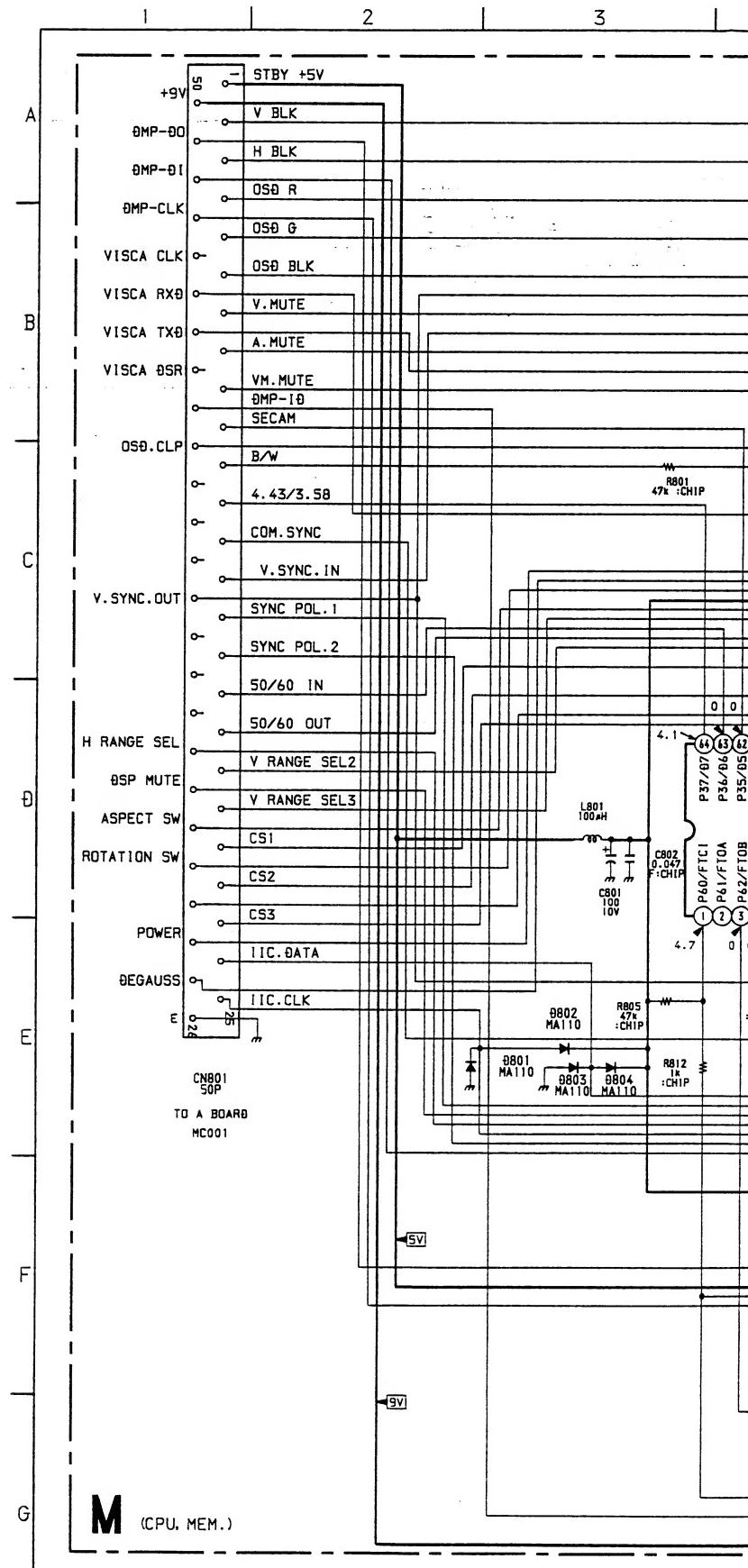
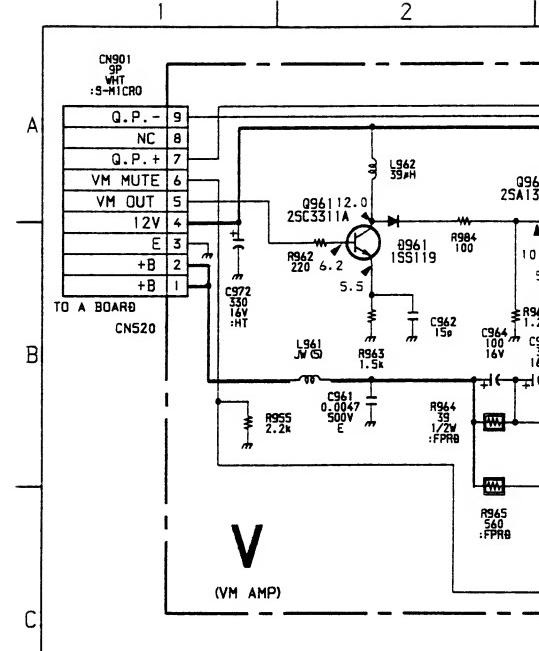
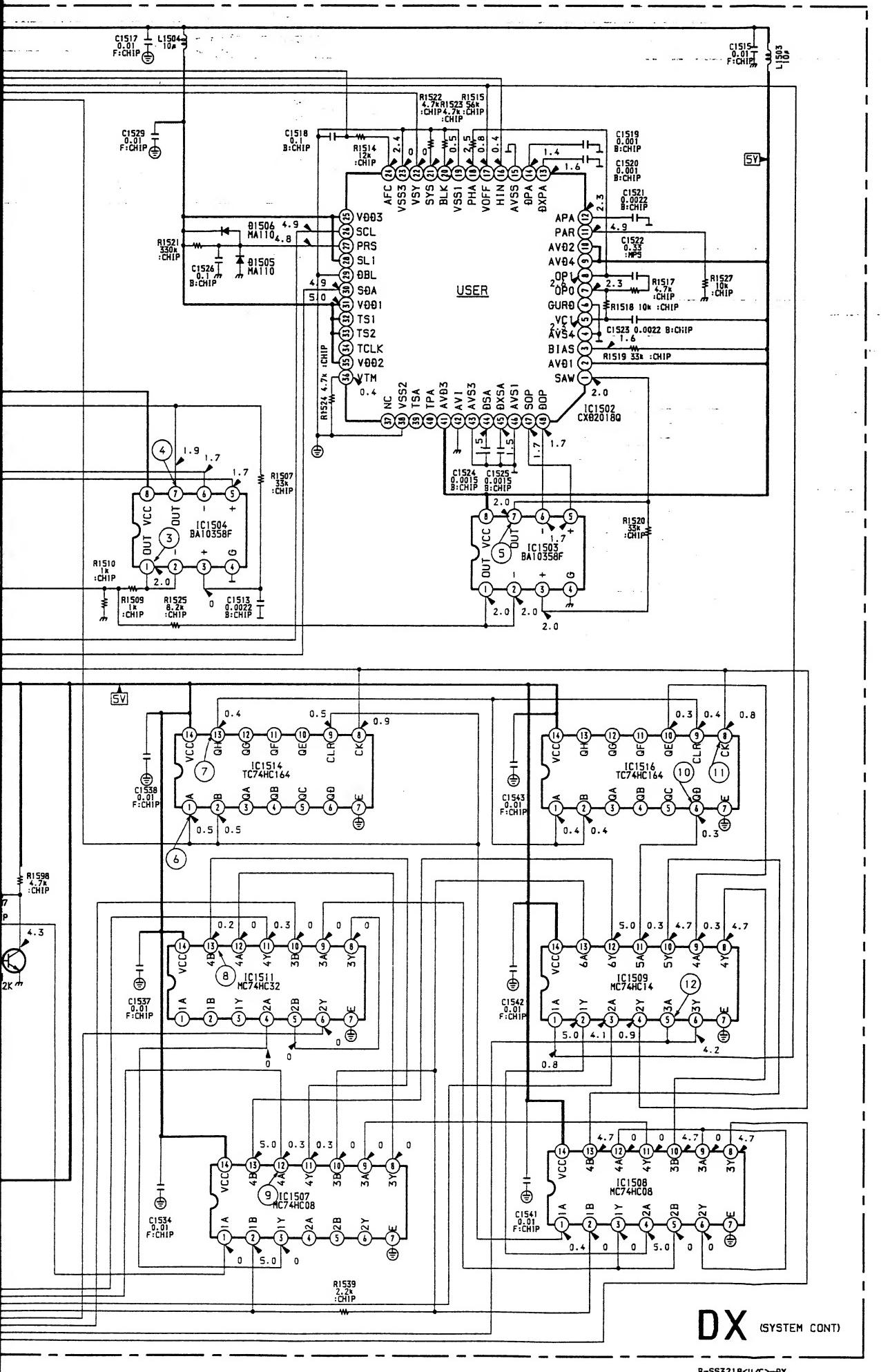
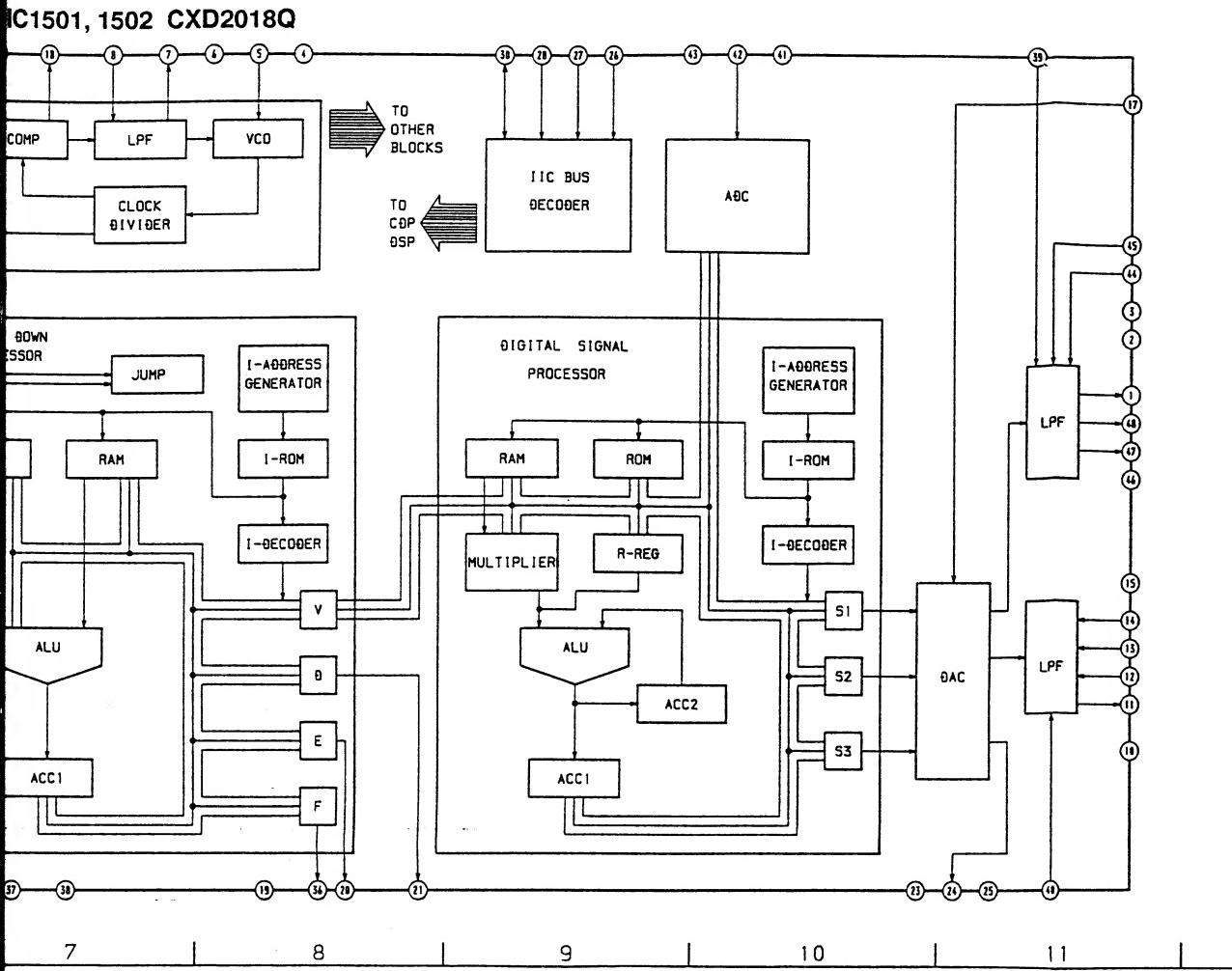
## • DX BOARD WAVEFORMS

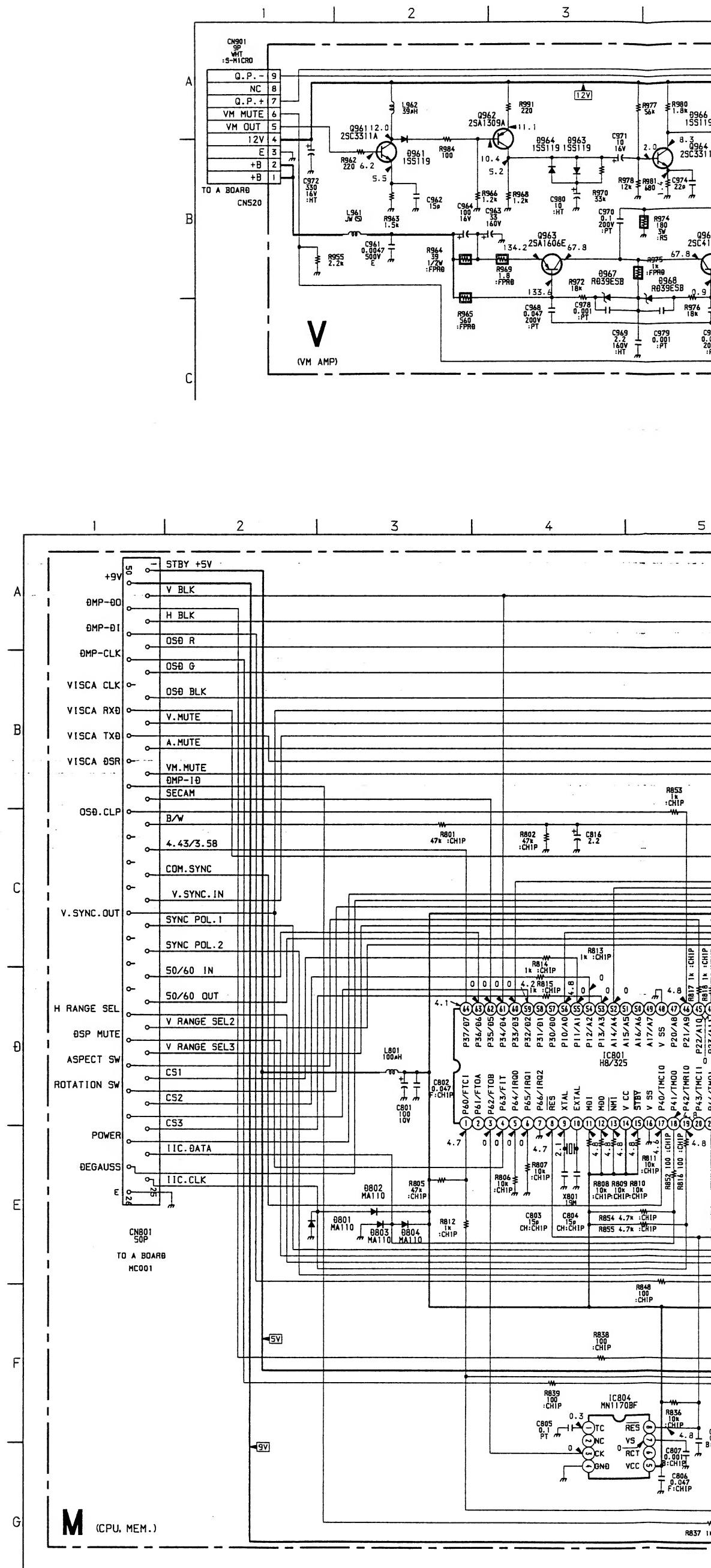
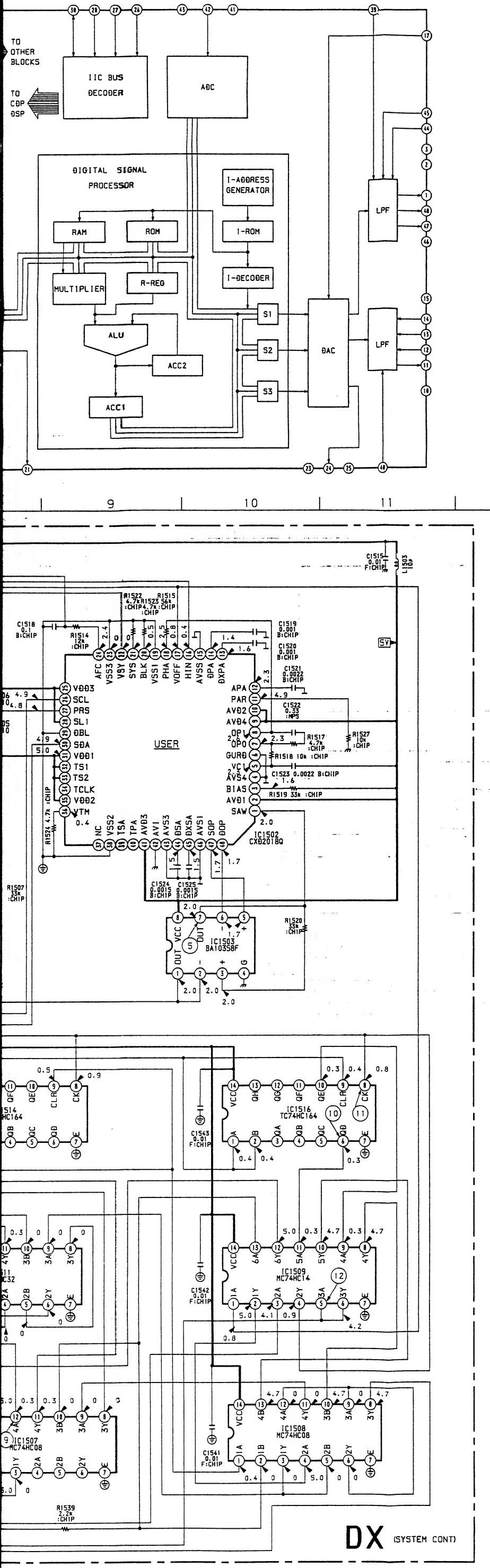


## DX BOARD

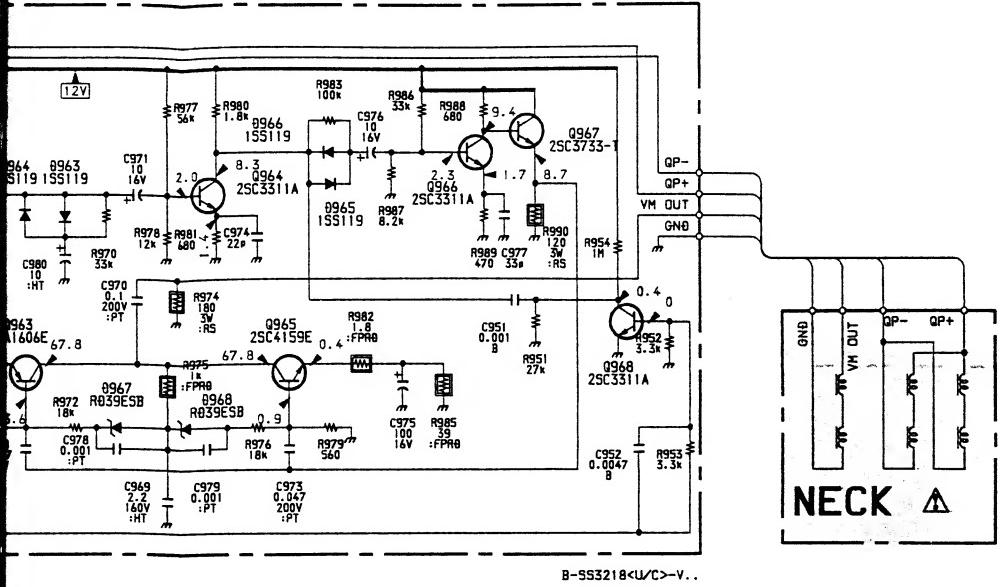
D1501	H BLK SW 3
D1502	6.8V CLAMP
D1505	PROTECT
D1506	PROTECT
D1507	PROTECT
D1508	PROTECT
D1509	REF VOLT
D15091	VOLT RECT
IC1501	SERVICE GEO CTRL
IC1502	USER GEO CTRL
IC1503	V SAW BUFF
IC1504	V SAW BUFF
IC1505	SAW PARA OUT
IC1506	D/A CONV
IC1507	REF SHIFT 5
IC1508	REF SHIFT 6
IC1509	REF SHIFT 4
IC1511	REF SHIFT 3
IC1514	REF SHIFT 1
IC1516	REF SHIFT 2
IC1518	AFC CORR
IC15090	ABL BLK
Q1501	SHIFT SW
Q1502	ABL BUFF
Q1503	H BLK SW 1
Q1504	H BLK SW 2
Q15090	ABL BLK OUT 1
Q15091	ABL BLK OUT 2





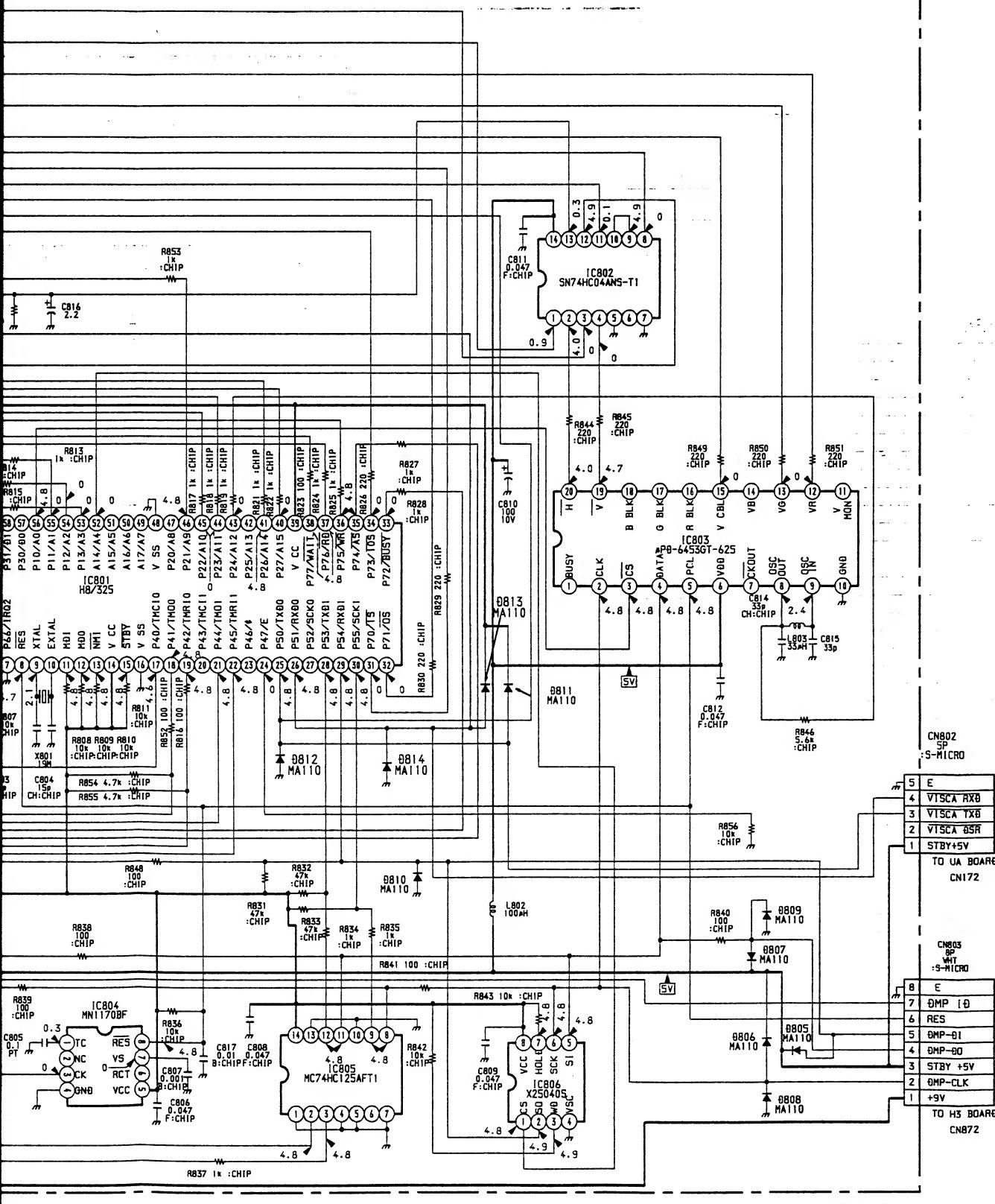


3 | 4 | 5 | 6 |

**V BOARD**

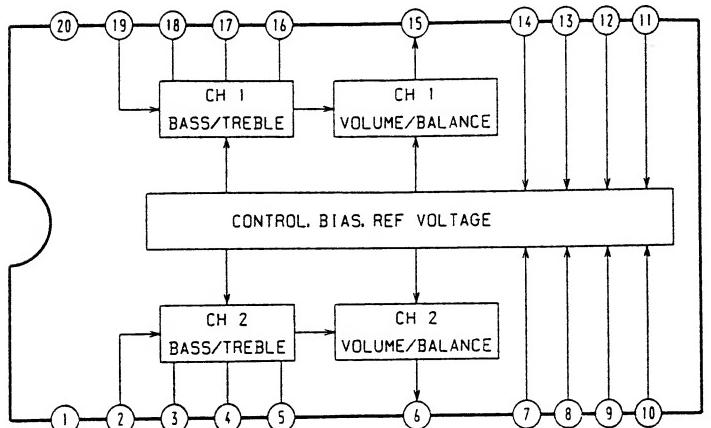
D961	DC BIAS
D963	SLI CE
D964	SLI CE
D965	CLIP
D966	CLIP
D967	PROT
D968	PROT
Q961	VM AMP 1
Q962	VM AMP 2
Q963	VM OUT
Q964	VM BUFF
Q965	VM OUT
Q966	VM OUT 1
Q967	VM OUT 2
Q968	MUTE SW

4 | 5 | 6 | 7 | 8 | 9 |

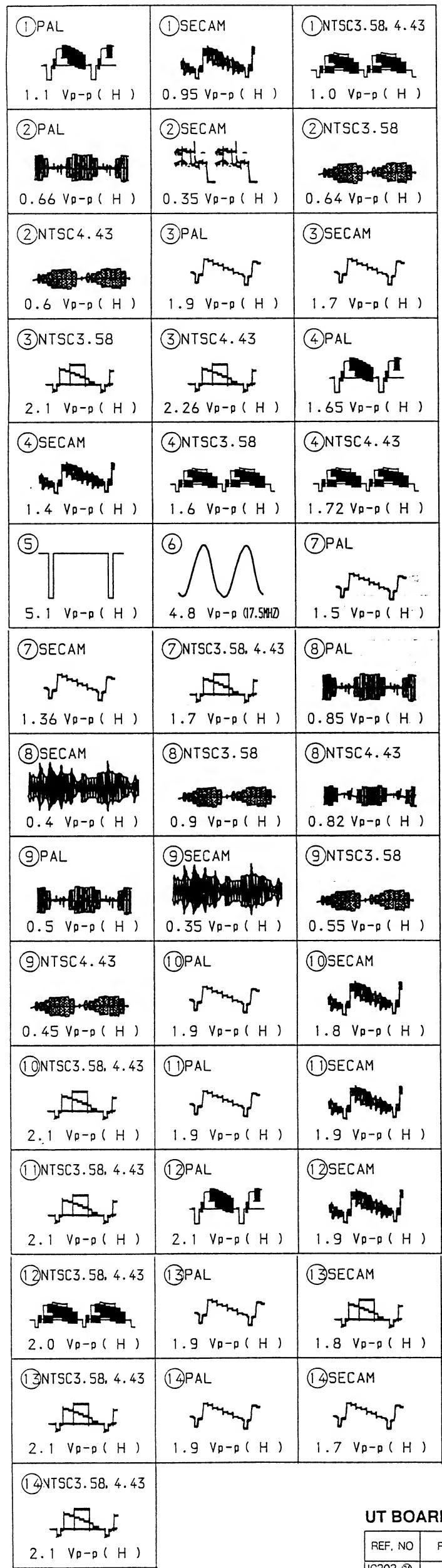
**M BOARD**

D801	PROTECT
D802	PROTECT
D803	PROTECT
D804	PROTECT
D805	PROTECT
D806	PROTECT
D807	PROTECT
D808	PROTECT
D809	PROTECT
D810	PROTECT
D811	PROTECT
D812	PROTECT
D813	PROTECT
D814	PROTECT
IC801	MICOM
IC802	INVERTER
IC803	CHARACTER GEN
IC804	RESET
IC805	BUFF
IC806	MEMORY

### UT BOARD IC204 TA8184P

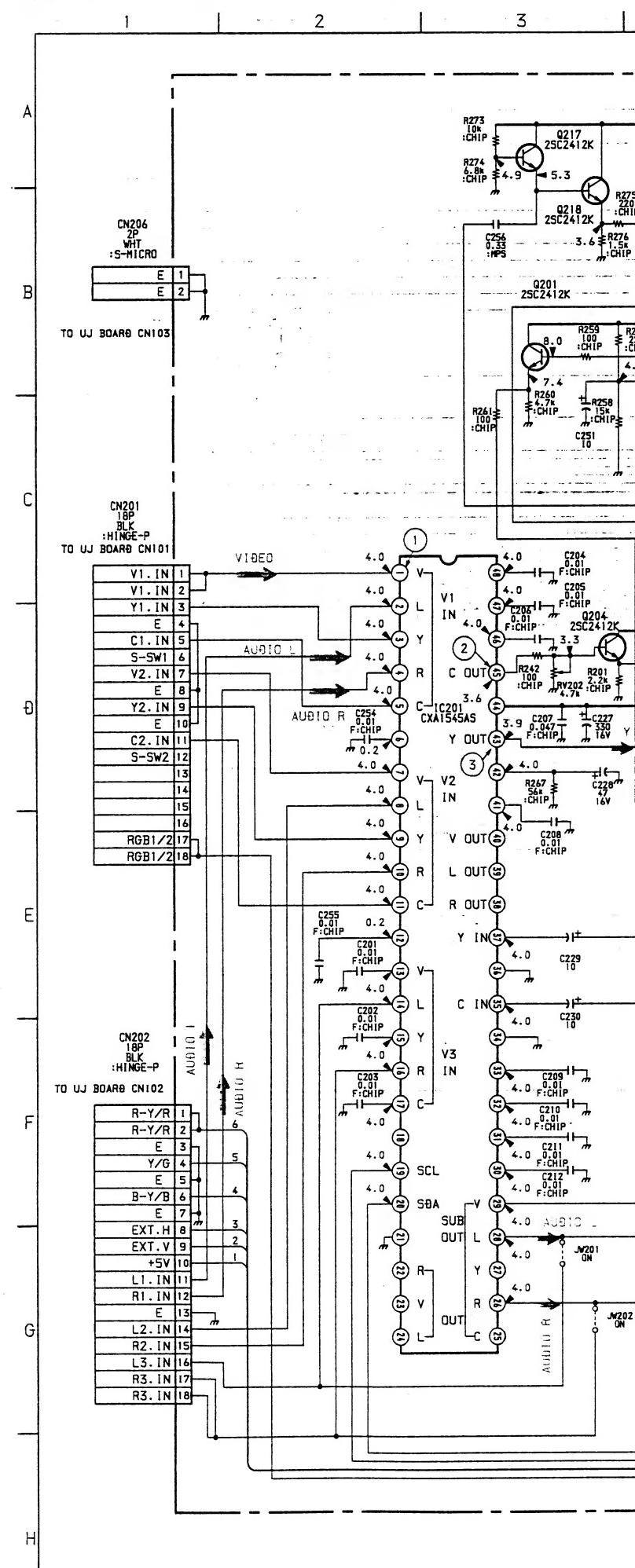


### • UT BOARD WAVEFORMS

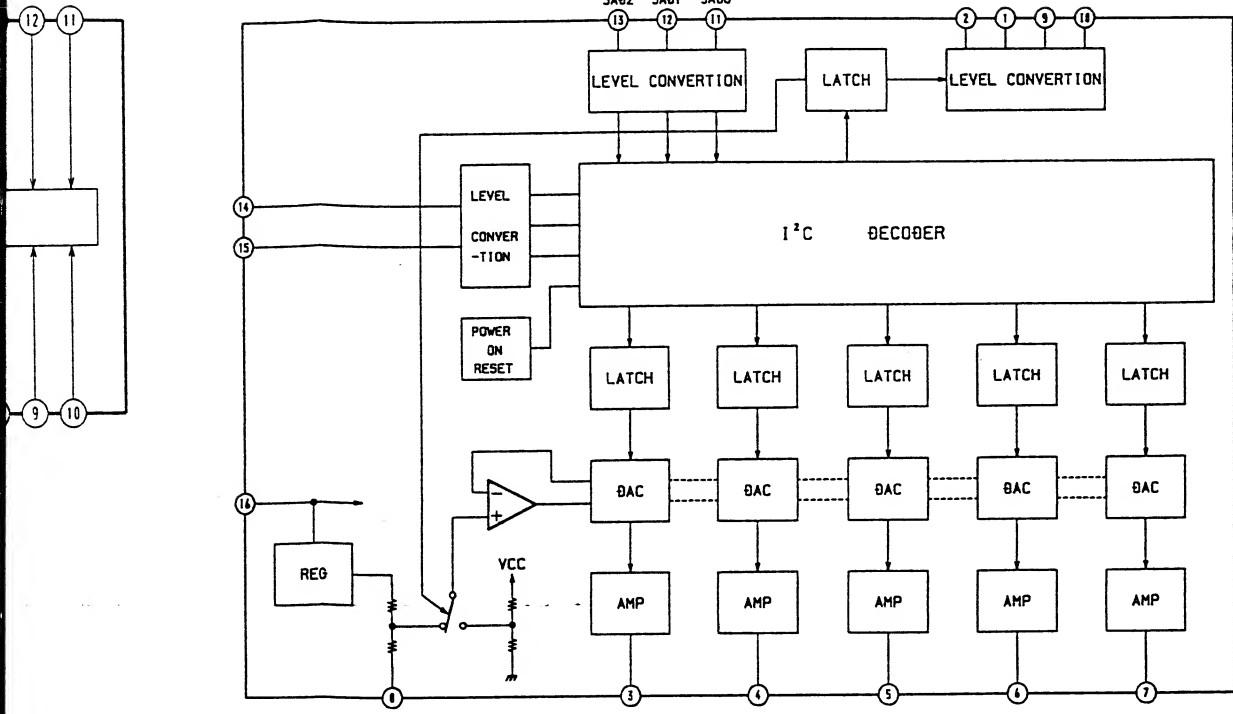


### UT BOARD \* MARK

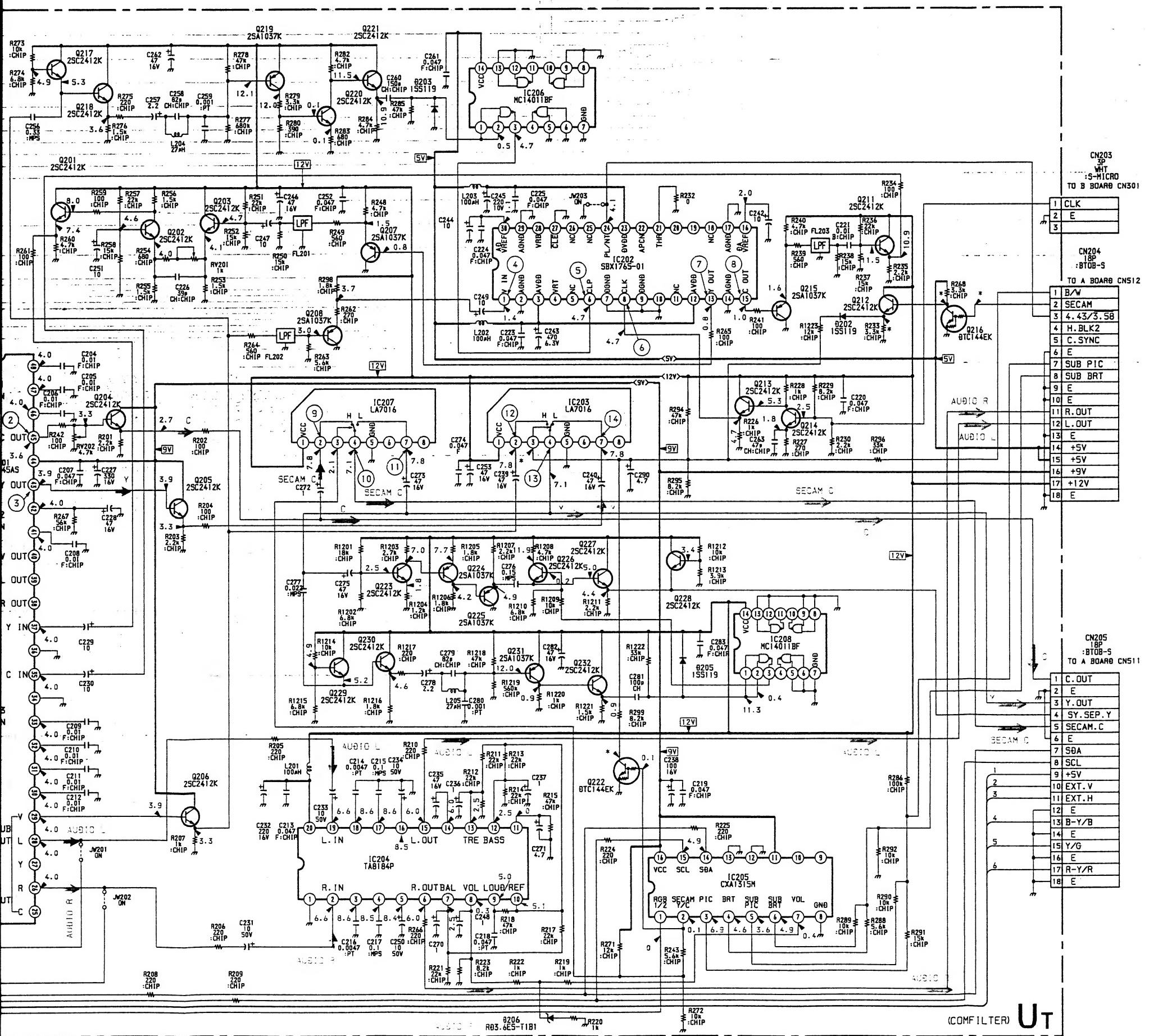
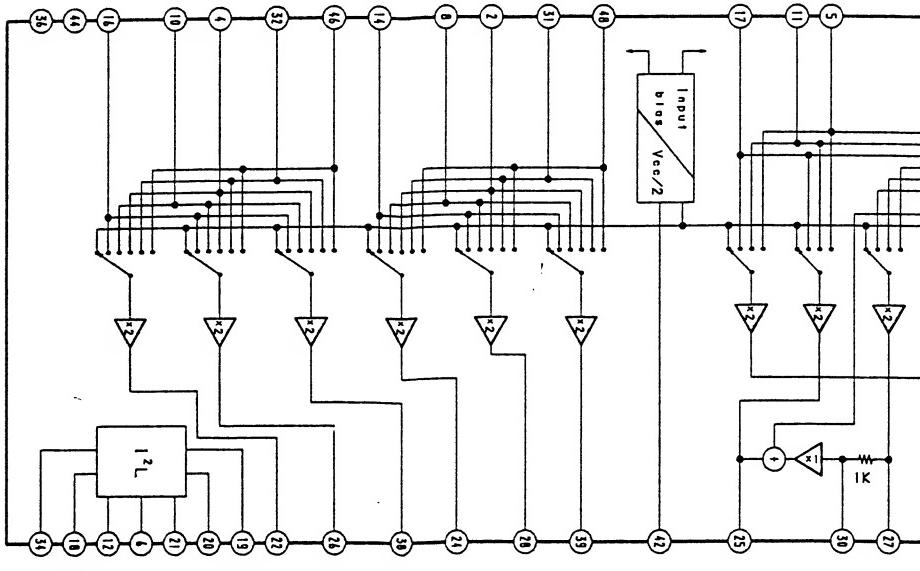
REF. NO	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC202 ②	4.0	4.1	0.1	4.1
IC203 ③	1.5	3.5	1.5	1.5
IC206 ④	5.0	5.0	5.0	2.3
IC208 ①	11.9	11.9	0	11.9
Q212 B	0	5.0	0	0
E	0	4.4	0	0
Q216 B	4.6	0	4.6	4.6
C	0	5.0	0	0
Q222 C	1.5	3.5	1.5	1.5
Q227 C	12.0	11.9	0	11.9



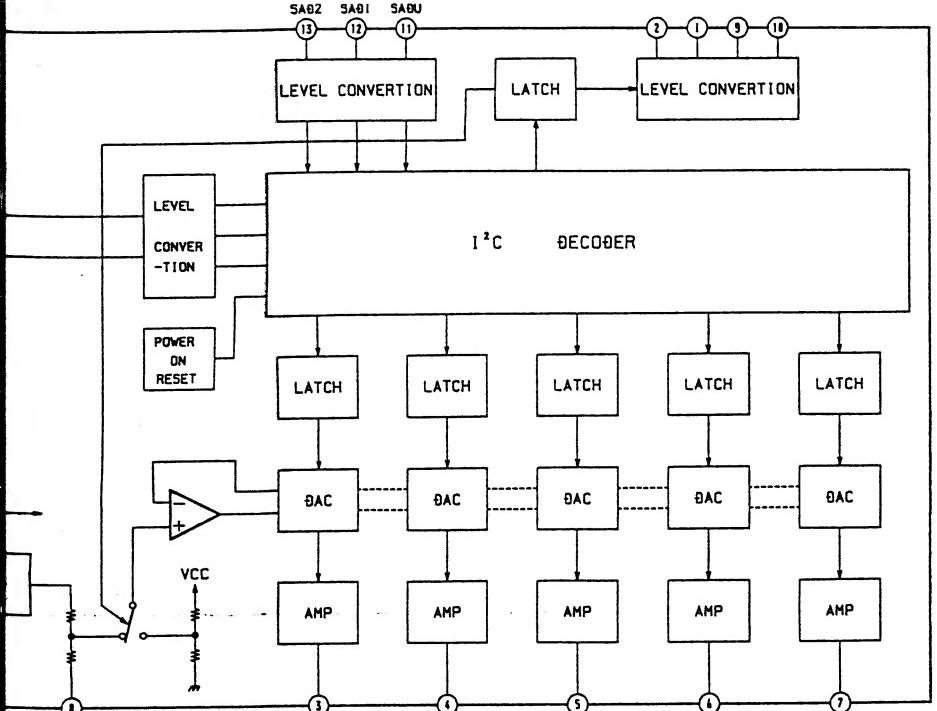
UT BOARD IC205 CXA1315M



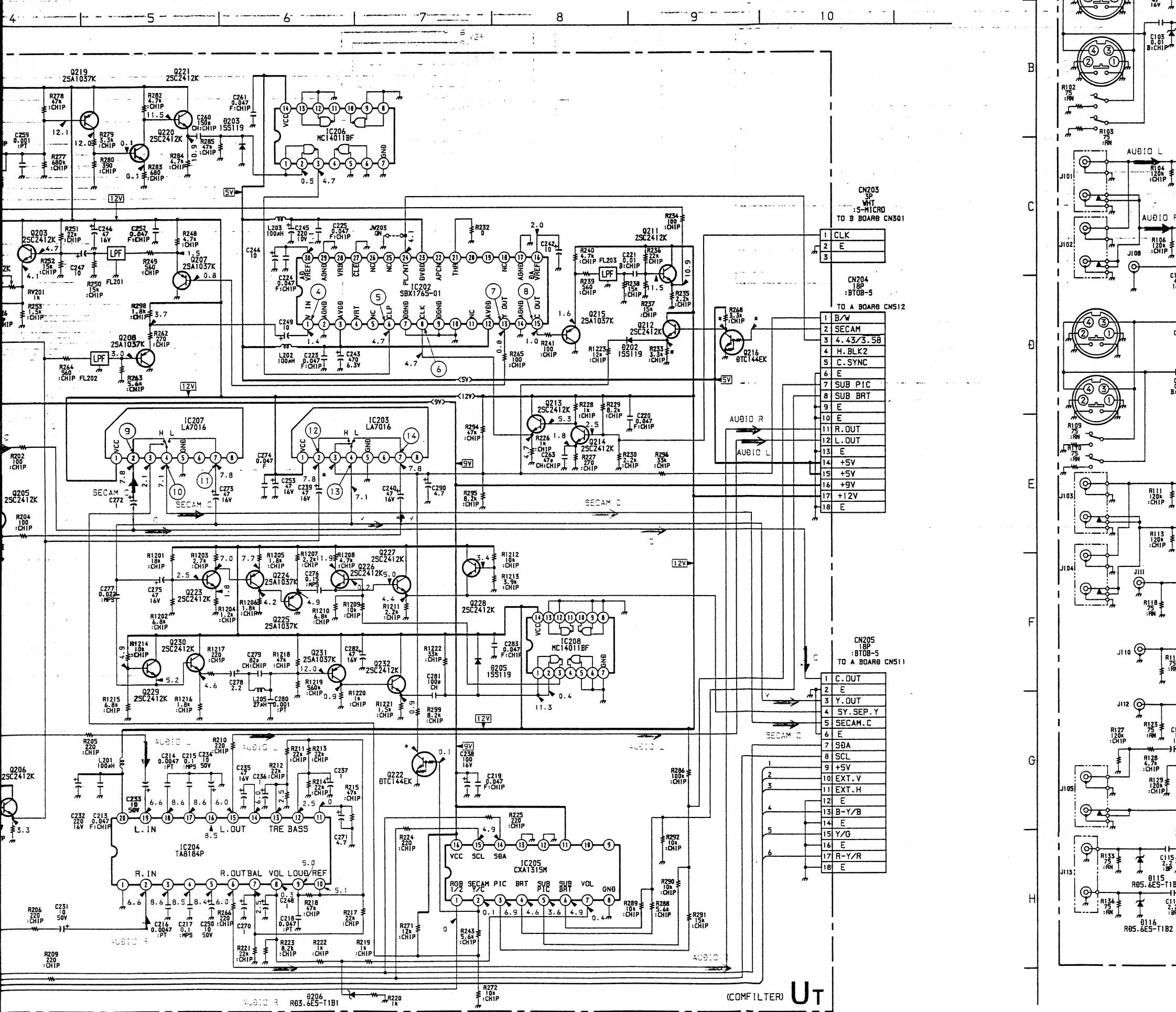
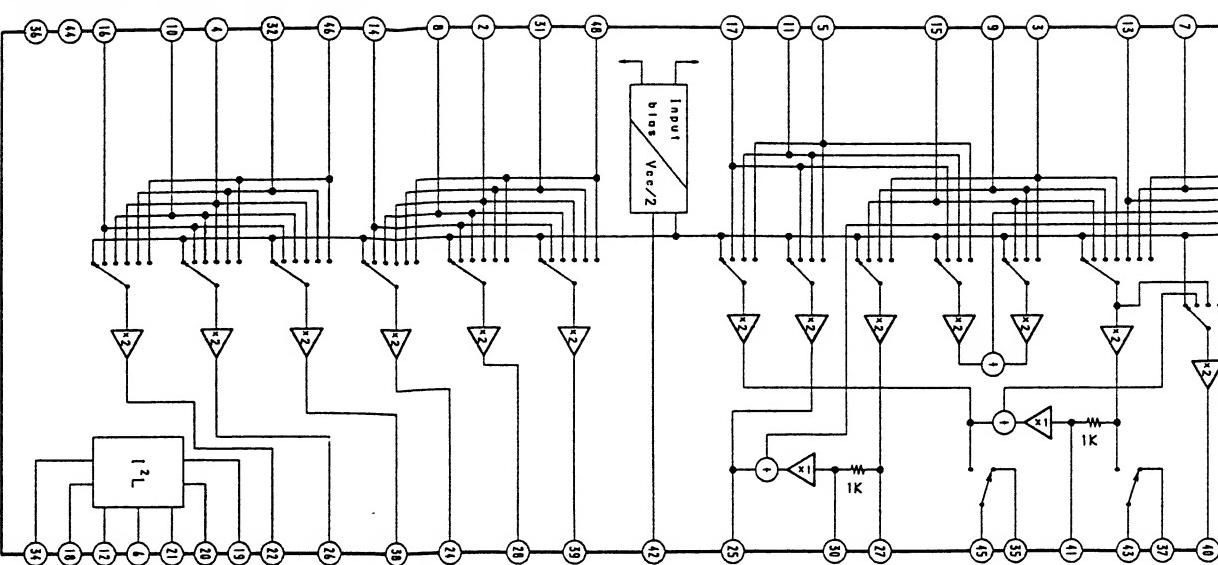
UT BOARD IC201 CXA1545AS

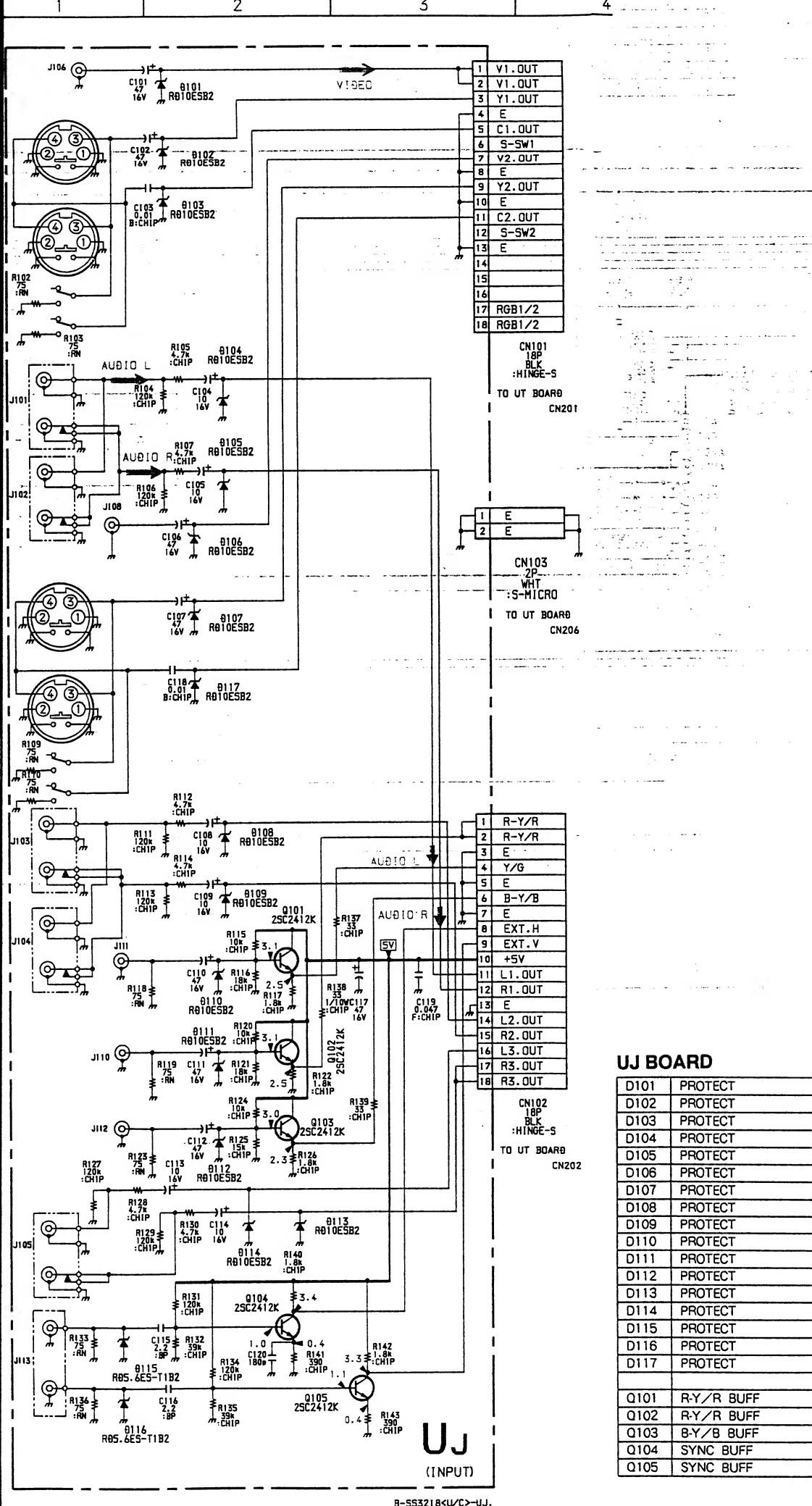
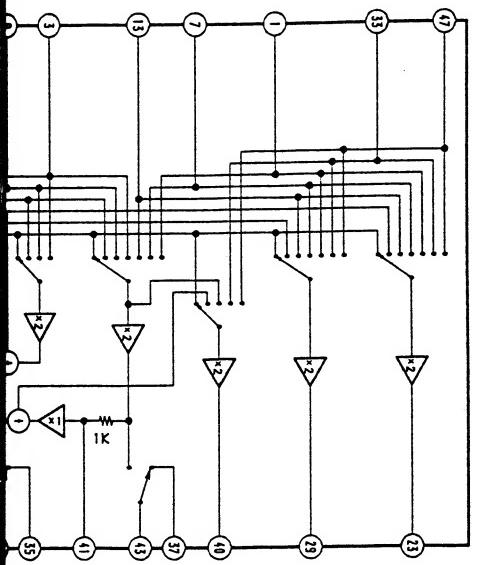


ARD IC205 CXA1315M



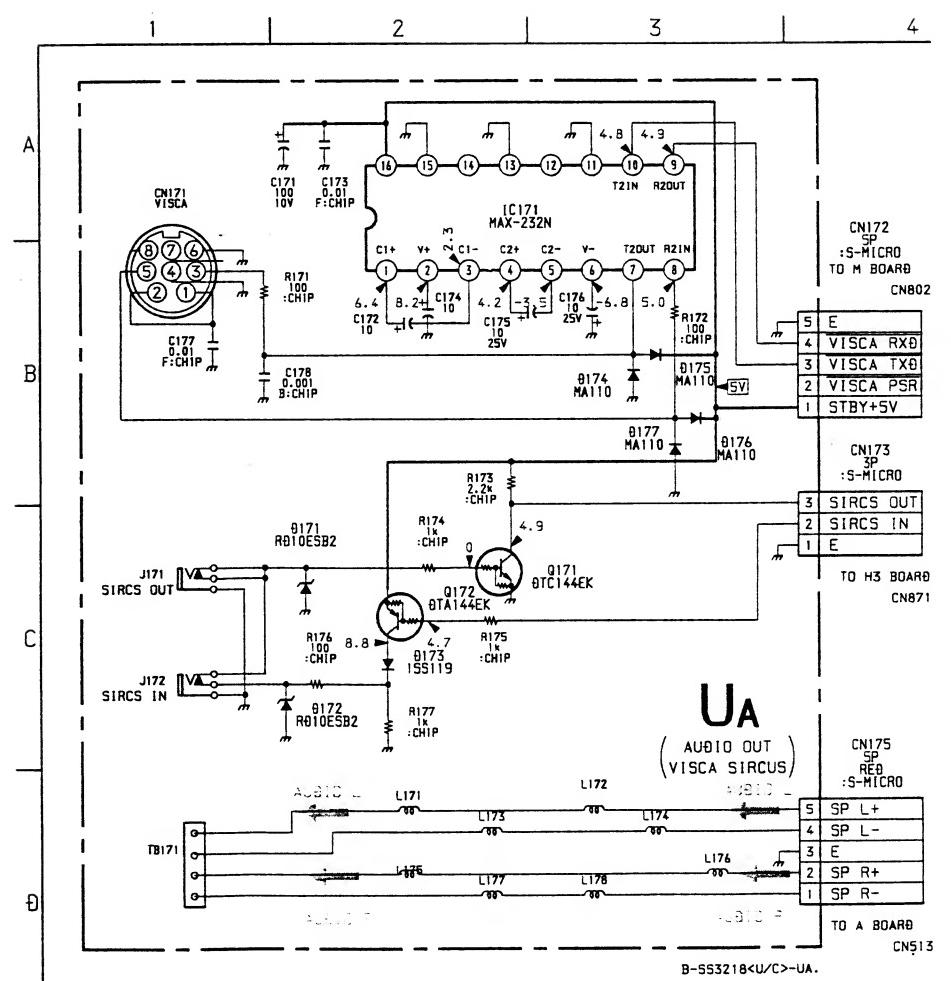
UT BOARD IC201 CXA1545AS





UA BOARD

D171	PROTECT
D172	PROTECT
D173	PROTECT
D174	PROTECT
D175	PROTECT
D176	PROTECT
D177	PROTECT
IC171	VISCA DRIVER
Q171	SIRCS INVERT
Q172	SIRCS INVERT

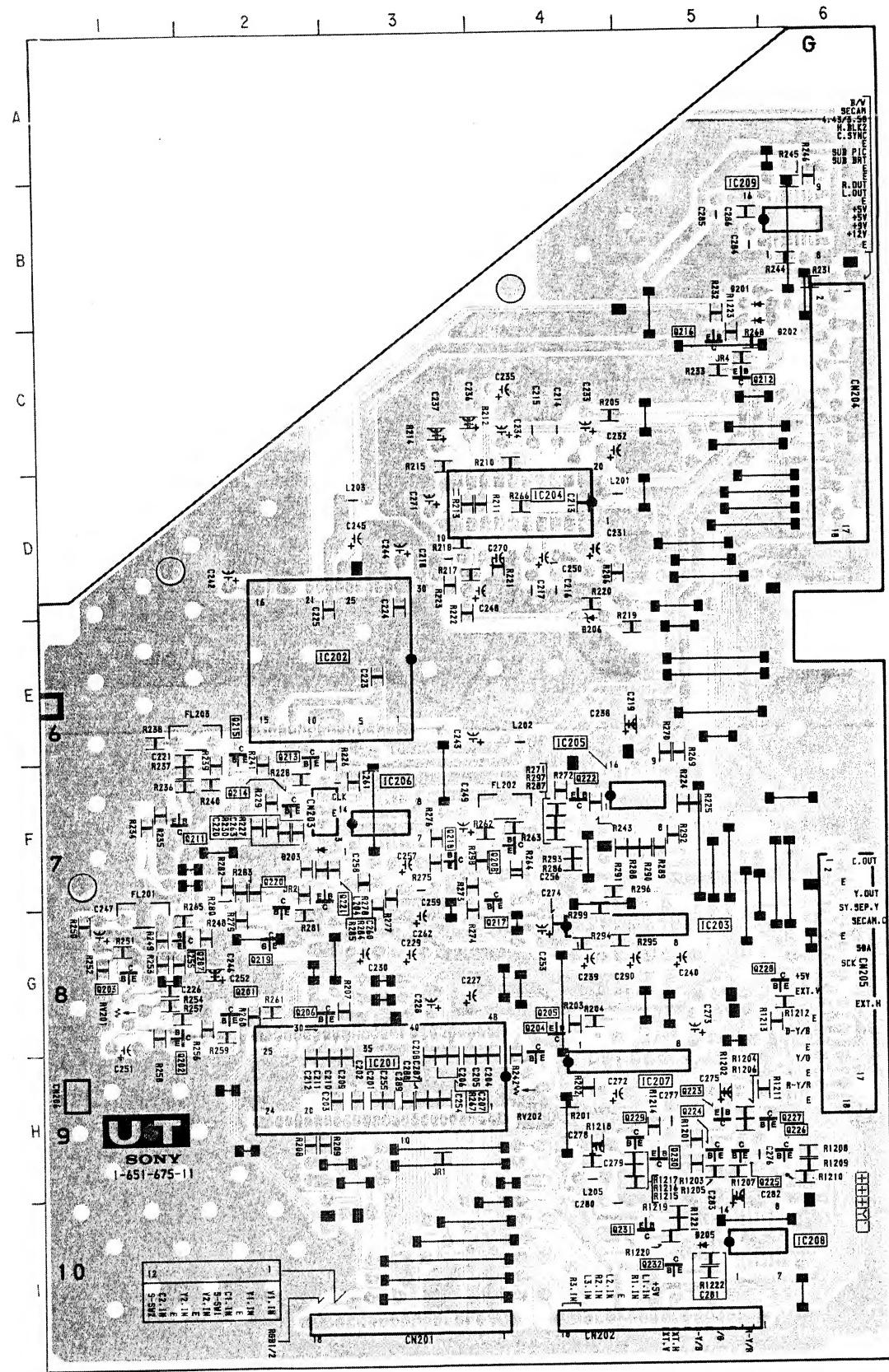


**UT** [COM FILTER]

**UJ** [INPUT] **UA**

**UA** [AUDIO OUT,  
VISCA, SIRCS]

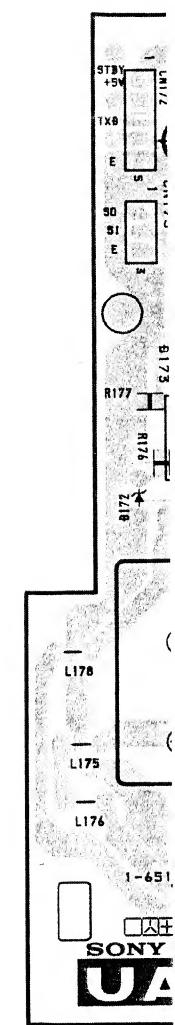
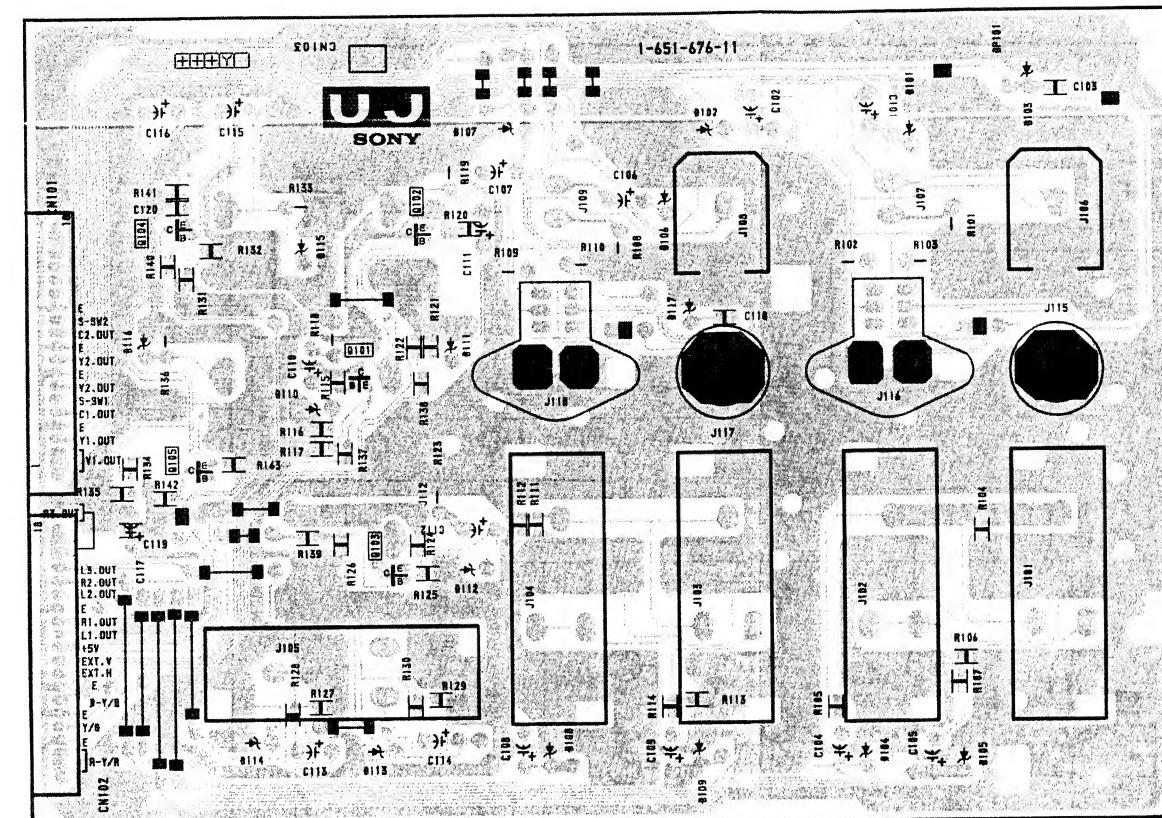
— UTBOARD —



UT BOARD

IC	
IC201	H - 3
IC202	E - 2
IC203	G - 5
IC204	D - 4
IC205	F - 5
IC206	F - 3
IC207	H - 5
IC208	I - 5
DIODE	
D202	C - 5
D203	F - 2
D205	I - 5
D206	E - 4
TRANSISTOR	
Q201	G - 2
Q202	G - 1
Q203	G - 1
Q204	H - 4
Q205	G - 4
Q206	G - 2
Q207	G - 1
Q208	F - 4
Q211	F - 1
Q212	C - 5
Q213	E - 2
Q214	F - 2
Q215	E - 2
Q216	C - 5
Q217	F - 4
Q218	F - 3
Q219	G - 2
Q220	F - 2
Q221	F - 2
Q222	F - 4
Q223	H - 5
Q224	H - 5
Q225	H - 5
Q226	H - 6
Q227	H - 5
Q228	G - 5
Q229	H - 5
Q230	H - 5
Q231	I - 5
Q232	I - 5
VARIABLE RESISTOR	
RV201	G - 1
RV202	H - 4

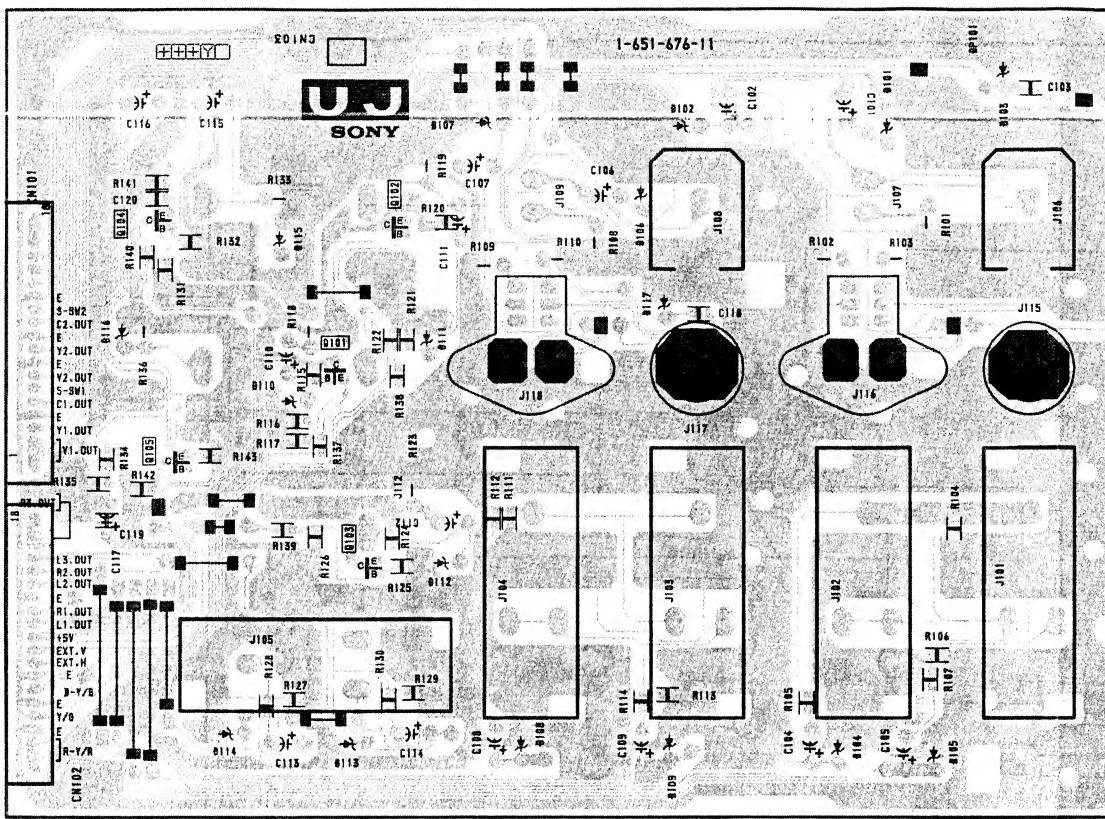
- UJ BOARD -



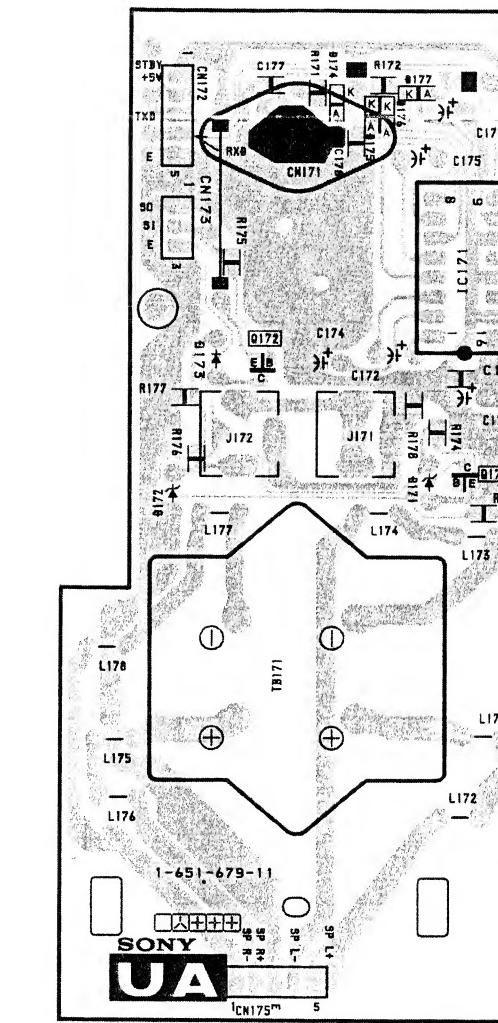
## - UJ BOARD -

## UT BOARD

IC	
IC201	H - 3
IC202	E - 2
IC203	G - 5
IC204	D - 4
IC205	F - 5
IC206	F - 3
IC207	H - 5
IC208	I - 5
DIODE	
D202	C - 5
D203	F - 2
D205	I - 5
D206	E - 4
TRANSISTOR	
Q201	G - 2
Q202	G - 1
Q203	G - 1
Q204	H - 4
Q205	G - 4
Q206	G - 2
Q207	G - 1
Q208	F - 4
Q211	F - 1
Q212	C - 5
Q213	E - 2
Q214	F - 2
Q215	E - 2
Q216	C - 5
Q217	F - 4
Q218	F - 3
Q219	G - 2
Q220	F - 2
Q221	F - 2
Q222	F - 4
Q223	H - 5
Q224	H - 5
Q225	H - 5
Q226	H - 6
Q227	H - 5
Q228	G - 5
Q229	H - 5
Q230	H - 5
Q231	I - 5
Q232	I - 5
VARIABLE RESISTOR	
RV201	G - 1
RV202	H - 4



## - UA BOARD -



C [R. G. B]

C BOARD -

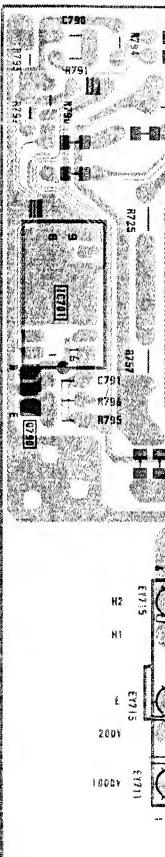
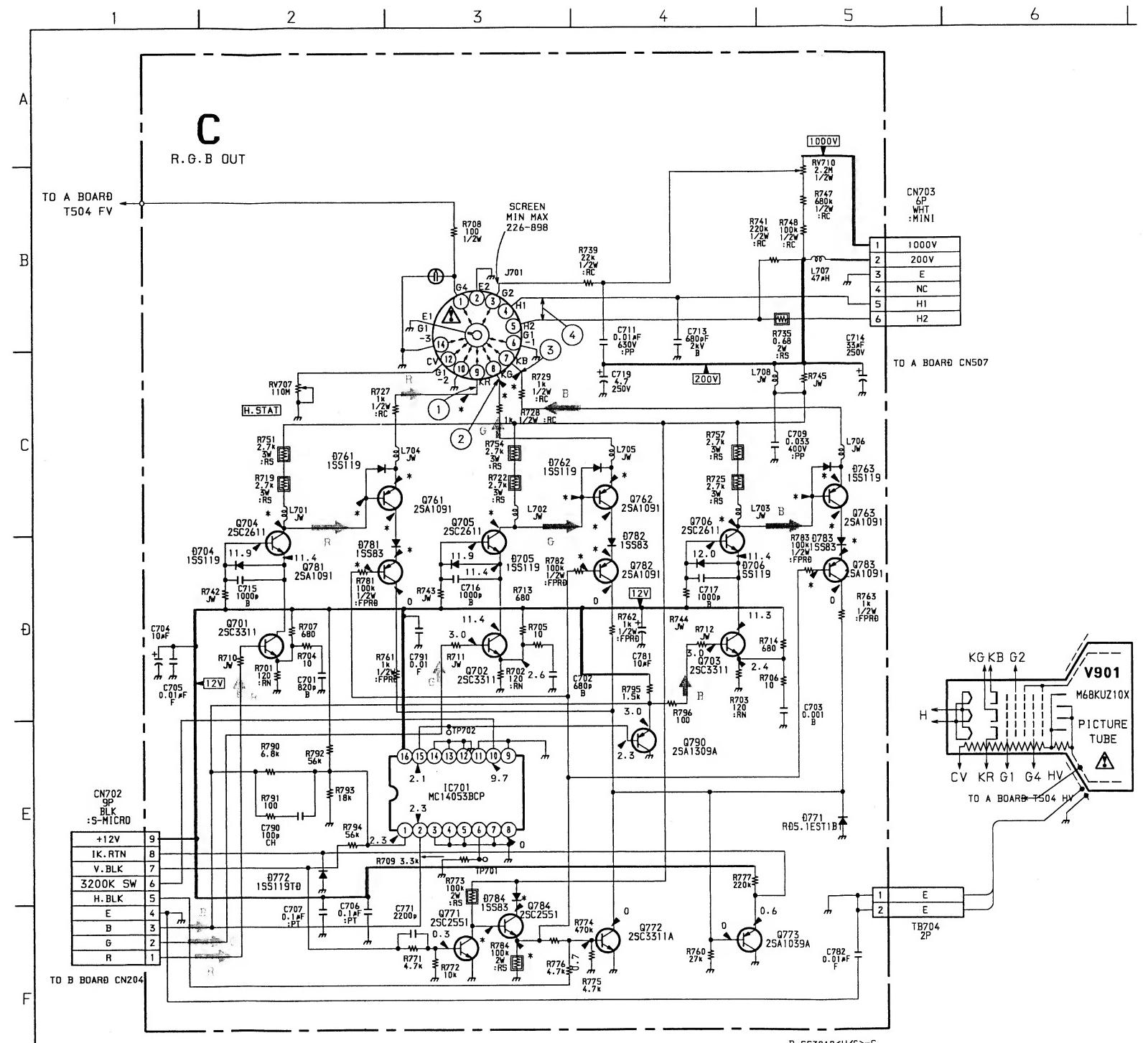
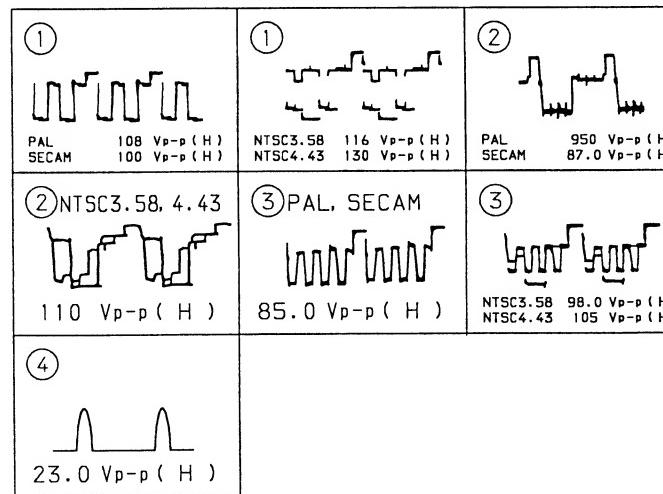
C BOARD

D704	PROTECT
D705	PROTECT
D706	PROTECT
D761	SPEED UP
D762	SPEED UP
D763	SPEED UP
D771	PROTECT
D772	PROTECT
D781	PROTECT
D782	PROTECT
D783	PROTECT
D784	BLK BUFF
IC701	3200 SW
Q701	R DRIVE
Q702	G DRIVE
Q703	B DRIVE
Q704	R OUT
Q705	G OUT
Q706	B OUT
Q761	IK DET
Q762	IK DET
Q763	IK DET
Q771	INVERT
Q772	BLK SW
Q773	IK BUFF
Q781	IK DET
Q782	IK DET
Q783	IK DET
Q784	BLK BUFF
Q790	B BUFF

C BOARD \* MAR

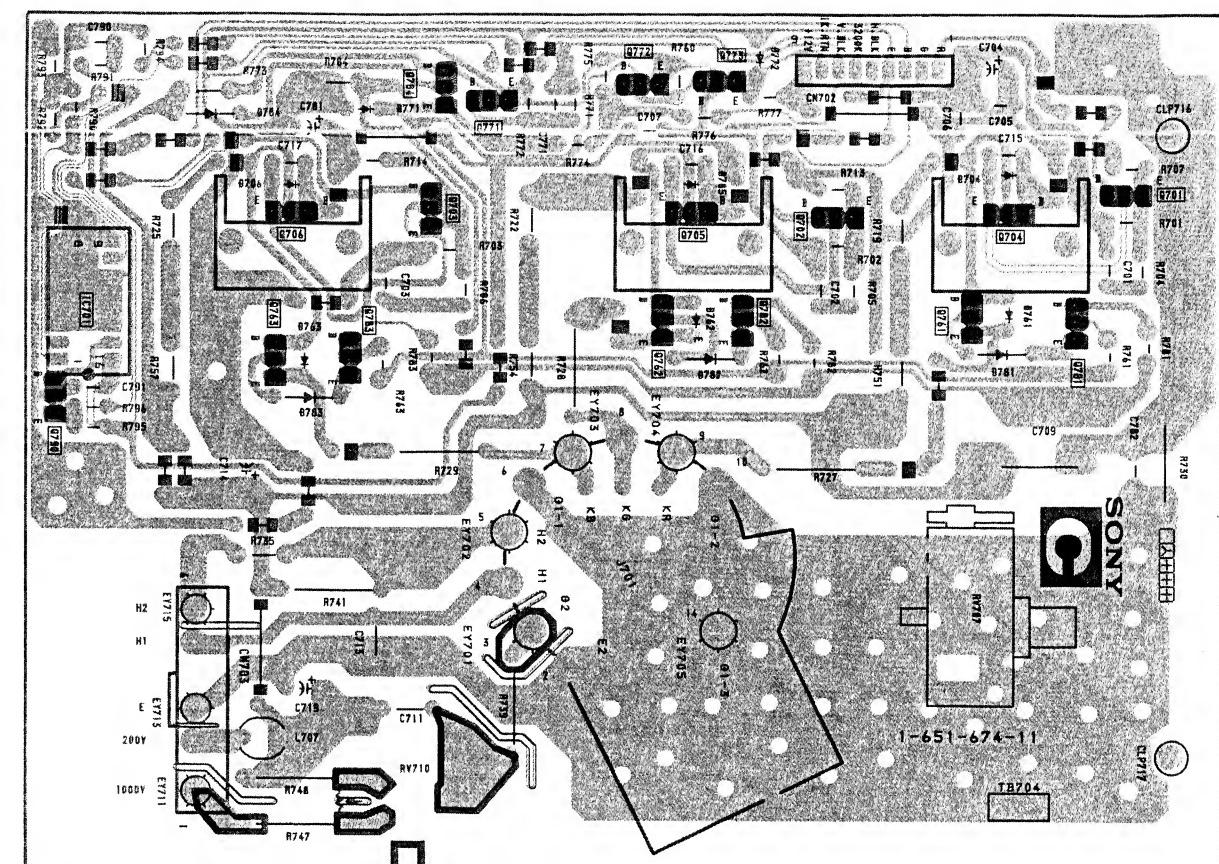
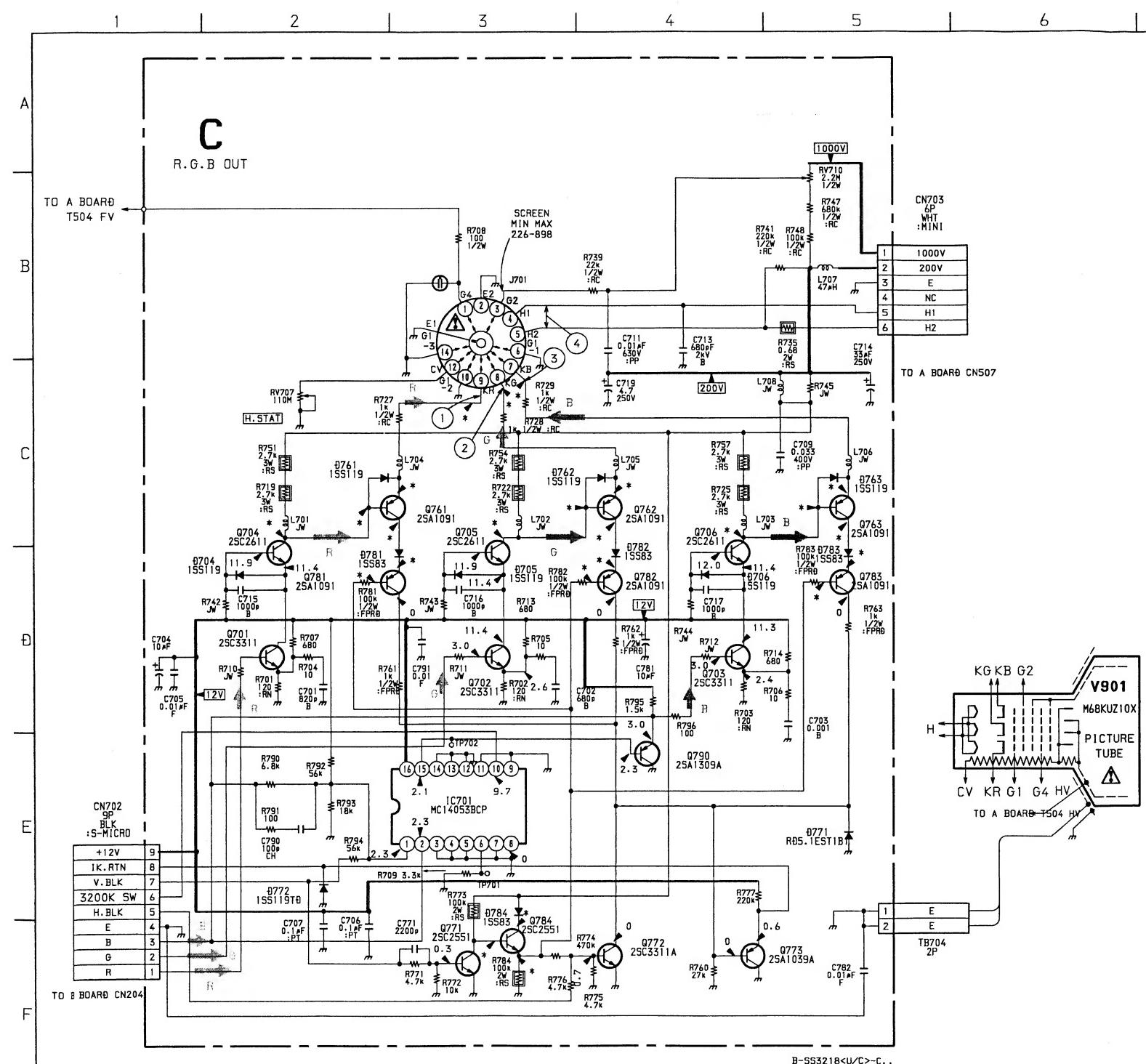
REF. NO	PAL	SECAM	NTSC 3.58	NTSC 4.43
J701 KB	165.8	166.9	164.9	163.7
RG	154.6	156.6	155.3	154.8
KR	143.7	144.6	145.6	146.2
Q704 C	145.2	146.5	147.2	147.3
Q705 C	158.4	160.7	159.1	158.3
Q706 C	168.1	169.2	166.6	165.6
Q761 B	145.1	146.2	147.3	147.3
C	129.2	133.0	129.8	128.8
E	143.0	144.0	145.1	145.5
Q762 B	158.3	160.5	159.3	158.5
C	140.8	143.4	139.6	139.4
E	154.3	156.4	155.2	154.6
Q763 B	168.0	169.2	166.9	165.7
C	153.6	154.6	149.3	148.6
E	165.6	166.9	164.7	163.5
Q771 C	182.0	182.2	179.0	179.8
Q781 B	181.5	181.5	178.9	178.9
E	169.9	172.0	167.8	172.4
Q783 B	181.4	181.5	178.9	179.0
E	169.7	171.0	167.3	168.2
Q784 B	182.1	182.2	179.5	179.6
C	197.7	197.8	197.2	197.3
E	183.2	183.4	180.6	180.7

### • C BOARD WAVEFORMS

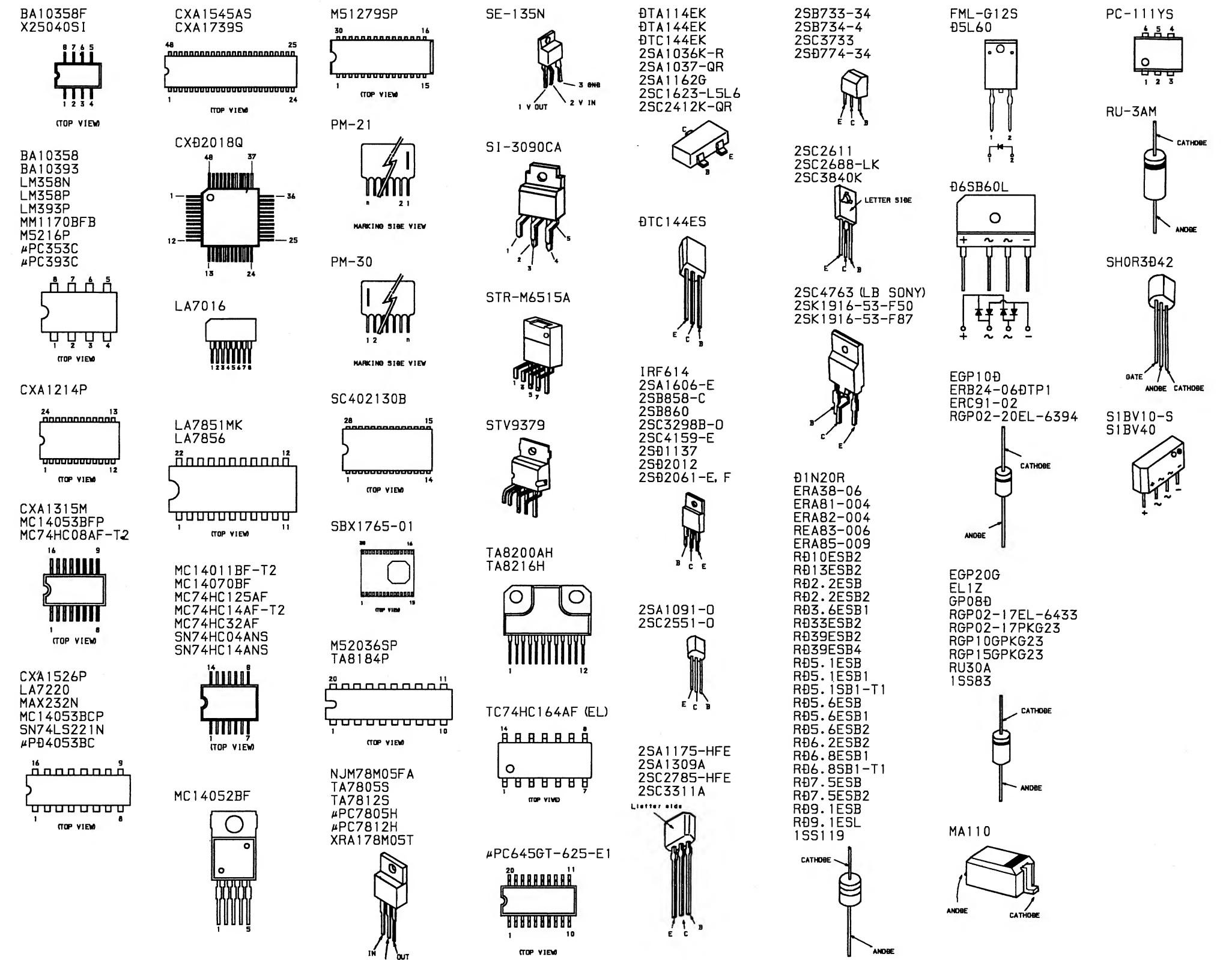


**C** [R. G. B OUT]

- C BOARD -



## 7-5. SEMICONDUCTORS



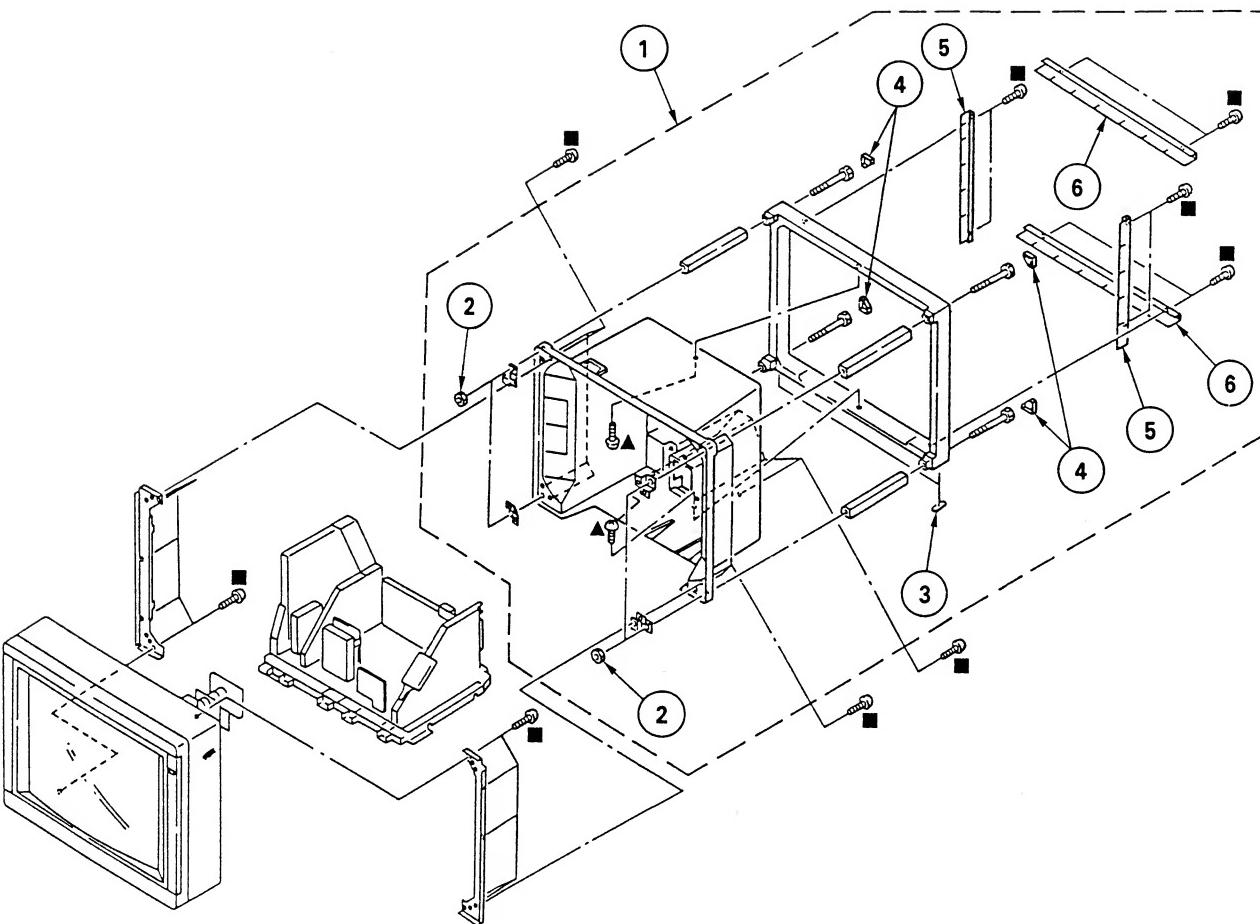
SECTION 8  
EXPLODED VIEWS

## NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a callout number in the remark column.
- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## 8-1. REAR COVER

▲: BVTP 4 x 12 7-685-661-79  
■: BVTP 4 x 16 7-685-663-79

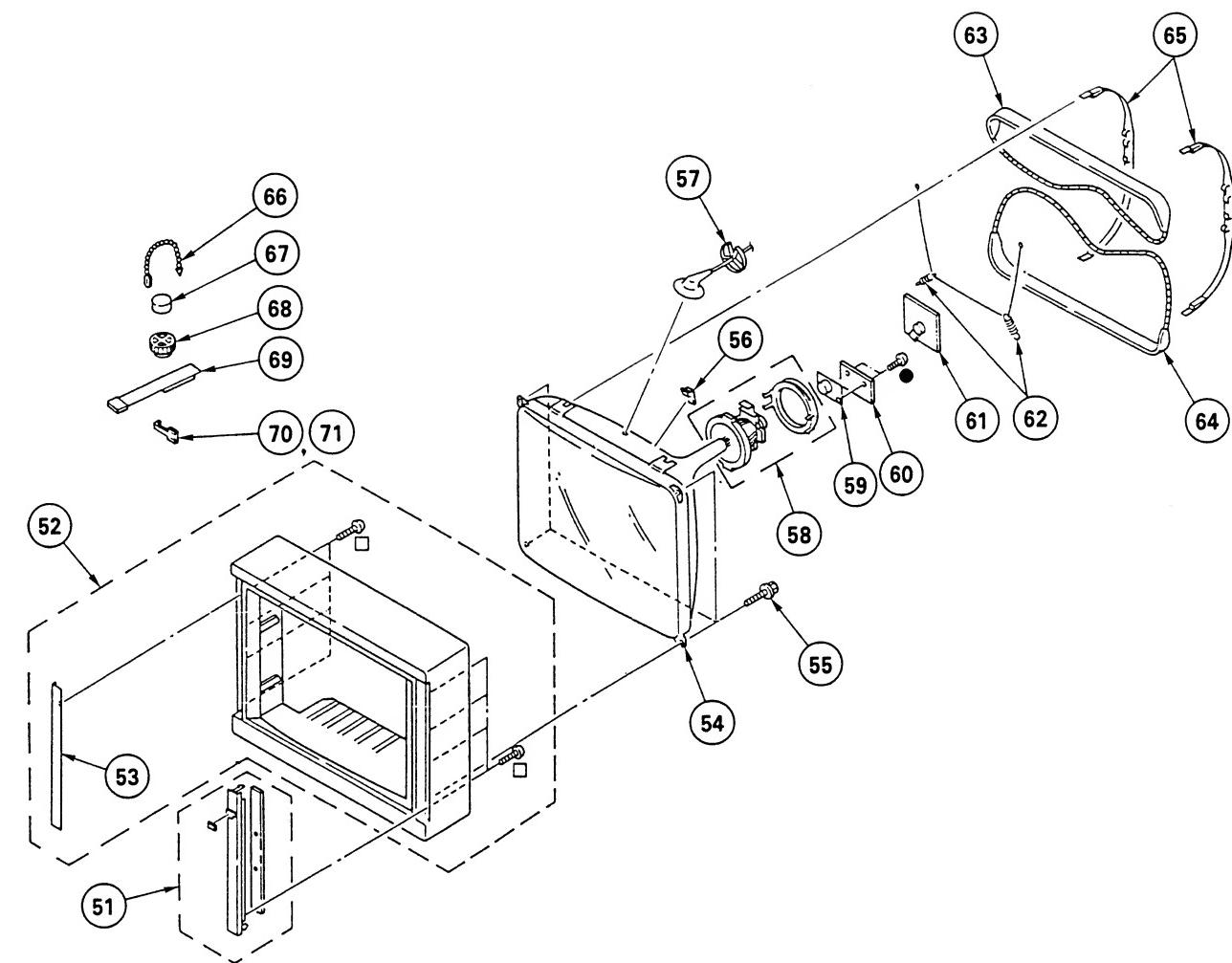


The components identified by shading and mark ▲ are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

## 8-2. PICTURE TUBE

●: BVTP 3 x 12 7-685-648-79  
□: BV 3 x 25 7-685-152-19



The components identified by shading and mark ▲ are critical for safety.  
Replace only with part number specified.

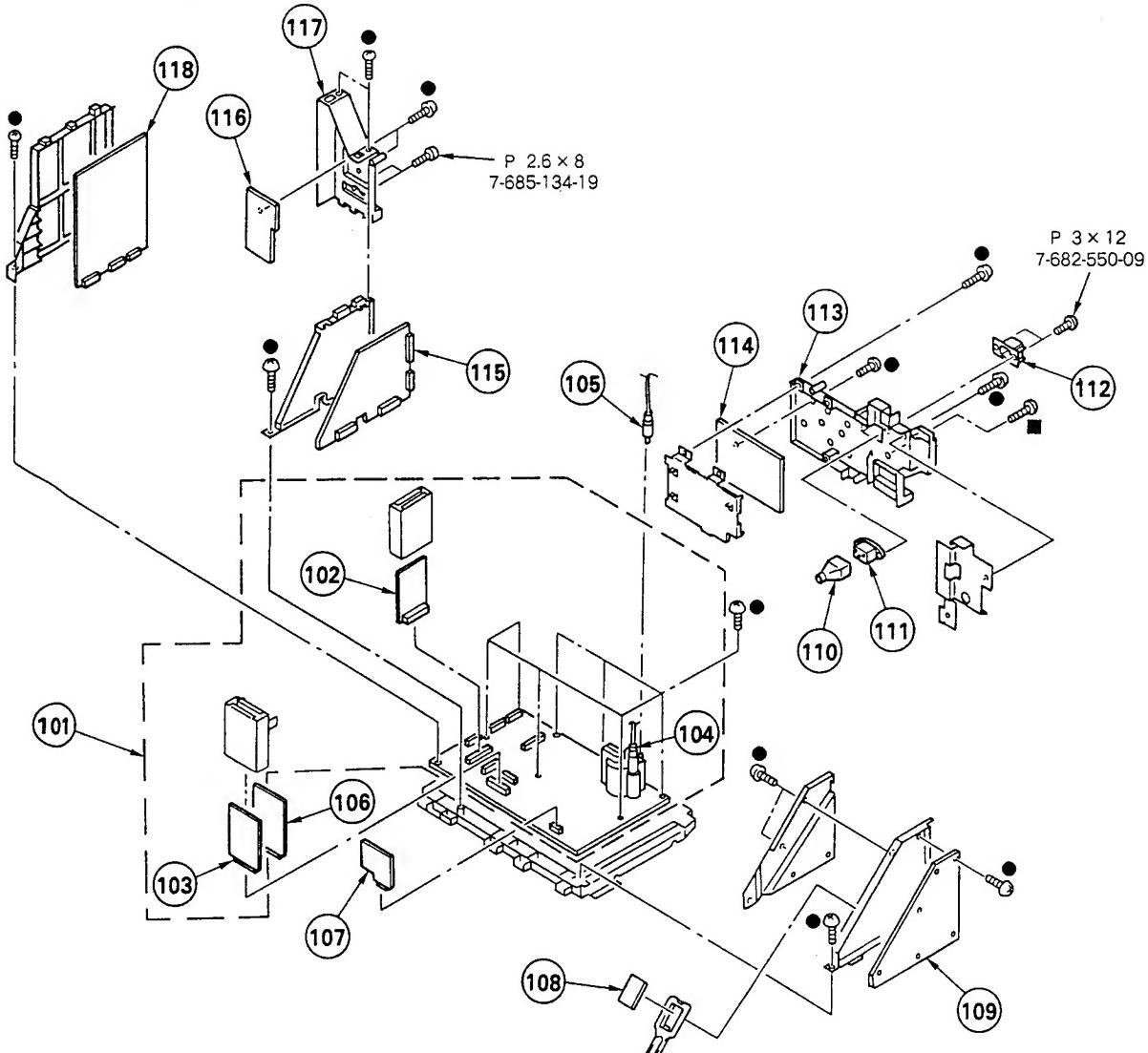
Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4032-023-1	COVER ASSY, REAR	2-6
2	4-304-511-00	NUT (M5), FLANGE	
3	4-392-860-01	CUSHION (B)	
4	4-039-913-01	CAP	
5	4-039-918-01	BRACKET (V), REAR FRAME	
6	4-039-917-01	BRACKET (H), REAR FRAME	

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	1-467-794-11	KEY BOARD UNIT		63	▲ 1-402-715-21	COIL, DEMAGNETIZATION (PVM-2950QM)	
52	X-4032-024-1	BEZNET ASSY	53	64	▲ 1-426-573-22	COIL, DEGAUSSING (PVM-2950Q)	
53	4-045-431-01	PANEL, BLIND		65	▲ 1-402-716-21	COIL, DEMAGNETIZATION (PVM-2950Q)	
54	▲ 8-733-845-05	PICTURE TUBE (M68KUZ10X)		66	▲ 1-426-574-22	COIL, DEGAUSSING (PVM-2950Q)	
55	4-390-505-01	SCREW (7), TAPPING		67	4-037-983-01	HOLDER, DGC	
56	3-704-495-01	SPACER, DY		68	4-308-870-00	CLIP, LEAD WIRE	
57	*3-704-372-01	HOLDER, HV CABLE		69	1-452-032-00	MAGNET, DISK; 10MM $\phi$	
58	▲ 8-451-394-31	DEFLECTION YOKE (Y29EXA)		70	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM $\phi$	
59	▲ 1-452-616-13	NECK ASSY, PICTURE TUBE (NA323)		71	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
60	*A-1342-246-A	V BOARD, COMPLETE		72	4-034-272-01	PLATE, CORRECTION, TLV	
61	*A-1331-344-A	C BOARD, COMPLETE		73	4-034-272-11	PLATE, CORRECTION, TLV	
62	4-369-318-00	SPRING, TENSION					

### 8-3. CHASSIS

- : BVTP 3 x 12 7-685-648-79
- : BVTP 4 x 16 7-685-663-79



The components identified by shading and mark  $\triangle$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\triangle$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	*A-1297-256-A	A BOARD, COMPLETE (PVM-2950QM(AEP))		110	4-601-466-11	COVER, 3P INLET	
	*A-1297-382-A	A BOARD, COMPLETE (PVM-2950QM(AUS))	102, 103	111	$\triangle$ 1-580-375-11	INLET 3P	
	*A-1297-387-A	A BOARD, COMPLETE (PVM-2950Q)	102, 103	112	2-990-241-02	HOLDER (A), PLUG	
102	*A-1301-950-A	M BOARD, COMPLETE		113	4-045-440-01	BRACKET, UJ	
103	*A-1341-764-A	DX BOARD, COMPLETE		114	*A-1373-468-A	UJ BOARD, COMPLETE	
104	$\triangle$ X-4032-250-1	TRANSFORMER ASSY, FLYBACK		115	*A-1394-545-A	UT BOARD, COMPLETE	
105	1-900-140-13	LEAD ASSY, FOCUS		116	*A-1373-467-A	UA BOARD, COMPLETE	
106	*A-1347-093-A	VC BOARD, COMPLETE		117	4-045-439-01	BRACKET, UA	
107	*A-1372-005-A	H3 BOARD, COMPLETE		118	*A-1135-787-A	B BOARD, COMPLETE	
108	*A-1311-363-A	G1 BOARD, COMPLETE (PVM-2950Q)					
	*A-1311-365-A	G1 BOARD, COMPLETE (PVM-2950QM)					
109	*A-1316-181-A	G BOARD, COMPLETE (PVM-2950Q)					
	*A-1316-182-A	G BOARD, COMPLETE (PVM-2950QM)					

SECTION 9  
ELECTRICAL PARTS LIST

B

NOTE:

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS COILS  
MF :  $\mu$ F, PF :  $\mu\mu$ F MMH : mH, UH :  $\mu$ H

- The components identified by  $\blacksquare$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.
- There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	*A-1135-787-A	B BOARD, COMPLETE		C348	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
		*****		C349	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
				C350	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
				C351	1-163-129-00	CERAMIC CHIP 330PF	5% 50V
				C352	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
				C353	1-137-374-11	FILM 0.047MF	5% 50V
				C354	1-137-374-11	FILM 0.047MF	5% 50V
				C355	1-124-903-11	ELECT 1MF	20% 50V
				C356	1-124-902-00	ELECT 0.47MF	20% 50V
				C357	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C358	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C359	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
				C360	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C361	1-130-483-00	MYLAR 0.01MF	5% 50V
				C362	1-124-927-11	ELECT 4.7MF	20% 50V
				C363	1-124-126-00	ELECT 47MF	20% 16V
				C364	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C365	1-124-903-11	ELECT 1MF	20% 50V
				C366	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C367	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C368	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C369	1-163-031-11	CERAMIC CHIP 0.01MF	50V
				C370	1-137-364-11	FILM 0.001MF	5% 50V
				C371	1-124-126-00	ELECT 47MF	20% 16V
				C372	1-163-035-00	CERAMIC CHIP 0.047MF	50V
				C373	1-124-126-00	ELECT 47MF	20% 16V
				C374	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
				C375	1-137-399-11	FILM 0.1MF	5% 50V
				C376	1-163-019-00	CERAMIC CHIP 0.0068MF	10% 50V
				C377	1-126-964-11	ELECT 10MF	20% 50V
				C378	1-124-126-00	ELECT 47MF	20% 16V
				C379	1-137-399-11	FILM 0.1MF	5% 50V
				C380	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
				C381	1-163-103-00	CERAMIC CHIP 27PF	5% 50V
				C382	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
				C383	1-136-165-00	FILM 0.1MF	5% 50V
				C384	1-163-113-00	CERAMIC CHIP 120PF	5% 50V
				C385	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
				C386	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
				C387	1-136-165-00	FILM 0.1MF	5% 50V
				C388	1-163-103-00	CERAMIC CHIP 120PF	5% 50V
				C389	1-163-119-00	ELECT 47MF	20% 16V
				C390	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
				C391	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
				C392	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
				C393	1-163-101-00	CERAMIC CHIP 22PF	5% 50V
				C394	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
				C395	1-163-035-00	CERAMIC CHIP 0.047MF	50V
				C396	1-124-126-00	ELECT 47MF	20% 16V
				C397	1-137-399-11	FILM 0.1MF	5% 50V
				C398	1-137-399-11	FILM 0.1MF	5% 50V
				C399	1-163-119-00	CERAMIC CHIP 120PF	5% 50V
				C400	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
				C401	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
				C402	1-124-126-00	ELECT 47MF	20% 16V

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C403	1-124-126-00	ELECT CERAMIC CHIP 47MF	20% 50V	CP301	1-808-654-11	MODULE	
C404	1-163-031-11	CERAMIC CHIP 0.01MF	50V	CP302	1-236-365-11	MODULE, TRAP	
C405	1-124-126-00	ELECT CERAMIC CHIP 47MF	20% 50V	CP303	1-236-366-11	MODULE, TRAP	
C406	1-163-031-11	CERAMIC CHIP 0.01MF	50V				
C407	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V				
C408	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V				<TRIMMER>
C409	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	CT301	1-141-443-11	TRIMMER, CERAMIC	
C410	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	CT302	1-141-304-21	TRIMMER, CERAMIC	
C411	1-163-253-11	CERAMIC CHIP 120PF	5% 50V				
C412	1-124-903-11	ELECT 1MF	20% 50V				
C413	1-126-964-11	ELECT CERAMIC CHIP 10MF	20% 50V	D303	8-719-911-19	DIODE ISS119	
C414	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	D304	8-719-911-19	DIODE ISS119	
C415	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D306	8-719-404-46	DIODE MA110	
C416	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D307	8-719-911-19	DIODE ISS119	
C417	1-163-809-11	CERAMIC CHIP 0.047MF	10% 25V	D308	8-719-404-46	DIODE MA110	
C418	1-163-001-11	CERAMIC CHIP 220PF	10% 50V				
C419	1-136-153-00	FILM 0.01MF	5% 50V	D309	8-719-404-46	DIODE MA110	
C420	1-136-169-00	FILM 0.22MF	5% 50V	D310	8-719-404-46	DIODE MA110	
C421	1-124-903-11	ELECT 1MF	20% 50V	D311	8-719-404-46	DIODE MA110	
C422	1-136-165-00	FILM 0.1MF	5% 50V	D312	8-719-911-19	DIODE ISS119	
C423	1-124-903-11	ELECT 1MF	20% 50V	D313	8-719-911-19	DIODE ISS119	
C424	1-136-165-00	FILM 0.1MF	5% 50V	D314	8-719-911-19	DIODE ISS119	
C425	1-124-903-11	ELECT 1MF	20% 50V	D315	8-719-911-19	DIODE ISS119	
C426	1-136-165-00	FILM 0.1MF	5% 50V	D318	8-719-911-19	DIODE ISS119	
C427	1-124-903-11	ELECT 1MF	20% 50V	D319	8-719-911-19	DIODE ISS119	
C428	1-163-035-00	CERAMIC CHIP 0.047MF	50V	D320	8-719-911-19	DIODE ISS119	
C429	1-126-935-11	ELECT 470MF	20% 16V	D321	8-719-911-19	DIODE ISS119	
C430	1-124-903-11	ELECT 1MF	20% 50V	D322	8-719-911-19	DIODE ISS119	
C431	1-126-964-11	ELECT 10MF	20% 50V	D323	8-719-911-19	DIODE ISS119	
C432	1-124-903-11	ELECT 1MF	20% 50V	D324	8-719-911-19	DIODE ISS119	
C433	1-124-903-11	ELECT 1MF	20% 50V	D325	8-719-911-19	DIODE ISS119	
C434	1-124-767-00	ELECT 2.2MF	20% 50V	D326	8-719-911-19	DIODE ISS119	
C435	1-137-399-11	FILM 0.1MF	5% 50V	D327	8-719-911-19	DIODE ISS119	
C436	1-124-903-11	ELECT 1MF	20% 50V	D328	8-719-404-46	DIODE MA110	
C437	1-126-933-11	ELECT 100MF	20% 16V	D329	8-719-911-19	DIODE ISS119	
C438	1-163-035-00	CERAMIC CHIP 0.047MF	50V	D331	8-719-911-19	DIODE ISS119	
C439	1-124-126-00	ELECT 47MF	20% 16V	D333	8-719-109-88	DIODE RD5.6ESB1	
C440	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	D334	8-719-404-46	DIODE MA110	
C441	1-163-035-00	CERAMIC CHIP 0.047MF	50V	D335	8-719-404-46	DIODE MA110	
C442	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D336	8-719-404-46	DIODE MA110	
C443	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	D337	8-719-404-46	DIODE MA110	
C446	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V				<DELAY LINE>
C447	1-163-087-00	CERAMIC CHIP 4PF	0.25PF 50V	DL301	1-402-699-11	DELAY LINE	
C448	1-163-235-11	CERAMIC CHIP 22PF	5% 50V	DL302	1-402-679-11	DELAY LINE	
C449	1-163-113-00	CERAMIC CHIP 68PF	5% 50V				
C455	1-124-126-00	ELECT 47MF	20% 16V				<IC>
C456	1-163-257-11	CERAMIC CHIP 180PF	5% 50V	IC301	8-759-801-61	IC LA7220	
C458	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC302	8-759-300-71	IC HD14053BFP	
C459	1-163-117-00	CERAMIC CHIP 100PF	5% 50V	IC303	8-752-056-67	IC CXA1214P	
C460	1-163-241-11	CERAMIC CHIP 39PF	5% 50V	IC304	8-759-800-81	IC LA7016	
C461	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	IC305	8-759-009-06	IC MC14052BF	
C462	1-124-927-11	ELECT 4.7MF	20% 50V	IC306	8-759-605-38	IC M51279SP	
C463	1-124-927-11	ELECT 4.7MF	20% 50V	IC307	8-759-009-82	IC MC14011BF-T2	
CN301	*1-564-506-11	PLUG, CONNECTOR 3P		IC308	8-759-637-31	IC M52036SP	
CN302	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P		IC309	8-759-970-89	IC BA10358F	
CN303	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P		IC310	8-759-300-71	IC HD14053BFP	
CN304	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P		IC311	8-752-058-68	IC CXA1315M	
CN305	*1-564-512-11	PLUG, CONNECTOR 9P		IC312	8-752-067-05	IC CXA1739S	
				IC313	8-759-801-61	IC LA7220	
				IC316	8-752-058-68	IC CXA1315M	
				IC318	8-759-009-11	IC MC14070BF	
							<CONNECTOR>
							<COMPOSITION CIRCUIT BLOCK>

**B**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC319	8-759-300-71	IC HD14053BFP		Q342	8-729-216-22	TRANSISTOR 2SA1162-G	
IC320	8-759-300-71	IC HD14053BFP		Q343	8-729-216-22	TRANSISTOR 2SA1162-G	
<COIL>							
L301	1-408-411-00	INDUCTOR	15UH	Q344	8-729-901-01	TRANSISTOR DTC144EK	
L302	1-408-411-00	INDUCTOR	15UH	Q345	8-729-901-01	TRANSISTOR DTC144EK	
L303	1-408-411-00	INDUCTOR	15UH	Q346	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L304	1-408-405-00	INDUCTOR	4.7UH	Q347	8-729-901-01	TRANSISTOR DTC144EK	
L305	1-408-401-00	INDUCTOR	2.2UH	Q348	8-729-901-01	TRANSISTOR DTC144EK	
L306	1-408-401-00	INDUCTOR	2.2UH	Q349	8-729-901-01	TRANSISTOR DTC144EK	
L307	1-408-409-00	INDUCTOR	10UH	Q350	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L308	1-410-476-11	INDUCTOR	33UH	Q351	8-729-901-01	TRANSISTOR DTC144EK	
L309	1-408-409-00	INDUCTOR	10UH	Q352	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
L310	1-408-609-41	INDUCTOR	33UH	Q353	8-729-901-01	TRANSISTOR DTC144EK	
L311	1-408-411-00	INDUCTOR	15UH	Q354	8-729-901-01	TRANSISTOR DTC144EK	
<VARIABLE COIL>							
LV301	1-404-496-00	COIL		Q355	8-729-901-01	TRANSISTOR DTC144EK	
LV302	1-404-496-00	COIL		Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
<RESISTOR>							
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		JR306	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q302	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR308	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G		JR309	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q304	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR321	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q305	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR322	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q306	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR323	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q307	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR324	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q308	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR325	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q309	8-729-216-22	TRANSISTOR 2SA1162-G		JR326	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q311	8-729-216-22	TRANSISTOR 2SA1162-G		JR327	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q312	8-729-216-22	TRANSISTOR 2SA1162-G		JR328	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q313	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR329	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q314	8-729-216-22	TRANSISTOR 2SA1162-G		JR330	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q315	8-729-216-22	TRANSISTOR 2SA1162-G		JR331	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q316	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR332	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q317	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR333	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q318	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR334	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q319	8-729-216-22	TRANSISTOR 2SA1162-G		JR356	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q320	8-729-216-22	TRANSISTOR 2SA1162-G		JR360	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q321	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR520	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q322	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR521	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q323	8-729-216-22	TRANSISTOR 2SA1162-G		JR524	1-216-296-91	METAL GLAZE 0 5% 1/8W	
Q324	8-729-216-22	TRANSISTOR 2SA1162-G		JR525	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q325	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR526	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q326	8-729-120-28	TRANSISTOR 2SC1623-L5L6		JR529	1-216-295-91	METAL GLAZE 0 5% 1/10W	
Q327	8-729-216-22	TRANSISTOR 2SA1162-G		R301	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q328	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R302	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q329	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R303	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
Q330	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R304	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
Q331	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R305	1-216-647-11	METAL CHIP 680 0.50% 1/10W	
Q332	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R306	1-216-647-11	METAL CHIP 680 0.50% 1/10W	
Q333	8-729-216-22	TRANSISTOR 2SA1162-G		R307	1-216-025-00	METAL GLAZE 100 5% 1/10W	
Q334	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R308	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
Q335	8-729-216-22	TRANSISTOR 2SA1162-G		R309	1-216-043-00	METAL GLAZE 560 5% 1/10W	
Q336	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R310	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
Q337	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R311	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
Q338	8-729-216-22	TRANSISTOR 2SA1162-G		R312	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q339	8-729-216-22	TRANSISTOR 2SA1162-G		R313	1-216-051-00	METAL GLAZE 1.2K 5% 1/10W	
Q340	8-729-216-22	TRANSISTOR 2SA1162-G		R314	1-216-067-00	METAL GLAZE 5.6K 5% 1/10W	
Q341	8-729-216-22	TRANSISTOR 2SA1162-G		R315	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
Q337	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R316	1-216-075-00	METAL GLAZE 12K 5% 1/10W	
Q338	8-729-216-22	TRANSISTOR 2SA1162-G		R317	1-216-049-00	METAL GLAZE 1K 5% 1/10W	

**B**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R318	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W	R384	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R319	1-216-045-00	METAL GLAZE	680 5% 1/10W	R385	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R320	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R386	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R321	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R387	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R322	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R388	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R323	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R389	1-216-041-00	METAL GLAZE	470 5% 1/10W
R324	1-216-079-00	METAL GLAZE	18K 5% 1/10W	R390	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R325	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R391	1-216-103-91	METAL GLAZE	180K 5% 1/10W
R326	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R392	1-216-679-11	METAL CHIP	15K 0.50% 1/10W
R327	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R393	1-216-667-11	METAL CHIP	4.7K 0.50% 1/10W
R328	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R394	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R329	1-216-041-00	METAL GLAZE	470 5% 1/10W	R395	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R330	1-216-045-00	METAL GLAZE	680 5% 1/10W	R396	1-216-133-00	METAL GLAZE	3.3M 5% 1/10W
R331	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R397	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R332	1-216-115-00	METAL GLAZE	560K 5% 1/10W	R398	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R334	1-216-033-00	METAL GLAZE	220 5% 1/10W	R399	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R335	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	R400	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R336	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R401	1-216-105-00	METAL GLAZE	220K 5% 1/10W
R337	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W	R402	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R339	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	R403	1-216-097-00	METAL GLAZE	100K 5% 1/10W
R340	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R404	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R341	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R405	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R342	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R406	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R343	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R407	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R344	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R408	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R345	1-216-103-91	METAL GLAZE	180K 5% 1/10W	R409	1-216-029-00	METAL GLAZE	150 5% 1/10W
R346	1-216-107-00	METAL GLAZE	270K 5% 1/10W	R410	1-216-029-00	METAL GLAZE	150 5% 1/10W
R347	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R411	1-216-041-00	METAL GLAZE	470 5% 1/10W
R348	1-216-113-00	METAL GLAZE	470K 5% 1/10W	R412	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R349	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R413	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R350	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R414	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R351	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R415	1-216-045-00	METAL GLAZE	680 5% 1/10W
R352	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R416	1-216-043-00	METAL GLAZE	560 5% 1/10W
R353	1-216-033-00	METAL GLAZE	220 5% 1/10W	R417	1-216-037-00	METAL GLAZE	330 5% 1/10W
R354	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R418	1-216-043-00	METAL GLAZE	560 5% 1/10W
R355	1-216-089-91	METAL GLAZE	47K 5% 1/10W	R419	1-216-037-00	METAL GLAZE	330 5% 1/10W
R356	1-216-033-00	METAL GLAZE	220 5% 1/10W	R420	1-216-047-00	METAL GLAZE	820 5% 1/10W
R357	1-216-033-00	METAL GLAZE	220 5% 1/10W	R421	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R358	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R422	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R359	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R423	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R360	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R424	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R361	1-216-097-00	METAL GLAZE	100K 5% 1/10W	R425	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R362	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R426	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R363	1-216-093-00	METAL GLAZE	68K 5% 1/10W	R427	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W
R364	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R428	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R365	1-216-662-11	METAL CHIP	3K 0.50% 1/10W	R429	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W
R366	1-216-017-00	METAL GLAZE	47 5% 1/10W	R430	1-216-039-00	METAL GLAZE	390 5% 1/10W
R367	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R431	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R368	1-216-041-00	METAL GLAZE	470 5% 1/10W	R432	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R369	1-216-041-00	METAL GLAZE	470 5% 1/10W	R433	1-216-031-00	METAL GLAZE	180 5% 1/10W
R370	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R434	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R371	1-216-295-91	METAL GLAZE	0 5% 1/10W	R435	1-216-039-00	METAL GLAZE	390 5% 1/10W
R372	1-216-025-00	METAL GLAZE	100 5% 1/10W	R437	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R373	1-216-025-00	METAL GLAZE	100 5% 1/10W	R438	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R374	1-216-295-91	METAL GLAZE	0 5% 1/10W	R439	1-216-029-00	METAL GLAZE	150 5% 1/10W
R375	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R441	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R376	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R442	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R377	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R443	1-216-049-00	METAL GLAZE	1K 5% 1/10W
R378	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	R445	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R379	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R446	1-216-043-00	METAL GLAZE	560 5% 1/10W
R380	1-216-041-00	METAL GLAZE	470 5% 1/10W	R447	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R381	1-216-041-00	METAL GLAZE	470 5% 1/10W	R448	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R382	1-216-105-00	METAL GLAZE	220K 5% 1/10W	R449	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R383	1-216-113-00	METAL GLAZE	470K 5% 1/10W				

# B

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R450	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1322	1-216-077-00	METAL GLAZE	15K 5% 1/10W		
R451	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1323	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W		
R452	1-216-222-00	METAL GLAZE	10K 5% 1/8W	R1324	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
R454	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1327	1-216-077-00	METAL GLAZE	15K 5% 1/10W		
R455	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R1328	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R456	1-216-651-11	METAL CHIP	1K 0.50% 1/10W	R1332	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W		
R457	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1333	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W		
R458	1-216-043-00	METAL GLAZE	560 5% 1/10W	R1334	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
R459	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1335	1-216-049-00	METAL GLAZE	1K 5% 1/10W		
R460	1-216-083-00	METAL GLAZE	27K 5% 1/10W	R1336	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
R461	1-216-047-00	METAL GLAZE	820 5% 1/10W	R1337	1-216-085-00	METAL GLAZE	33K 5% 1/10W		
R462	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1338	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
R463	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	R1339	1-216-689-11	METAL GLAZE	39K 5% 1/10W		
R464	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1340	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R465	1-216-081-00	METAL GLAZE	22K 5% 1/10W	R1341	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W		
R467	1-216-295-91	METAL GLAZE	0 5% 1/10W	R1342	1-216-095-00	METAL GLAZE	82K 5% 1/10W		
R468	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1343	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W		
R470	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1344	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
R471	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1348	1-216-029-00	METAL GLAZE	150 5% 1/10W		
R472	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1349	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R473	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1350	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R474	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1351	1-216-097-00	METAL GLAZE	100K 5% 1/10W		
R476	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1352	1-216-103-91	METAL GLAZE	180K 5% 1/10W		
R477	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1353	1-216-081-00	METAL GLAZE	22K 5% 1/10W		
R478	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1354	1-216-045-00	METAL GLAZE	680 5% 1/10W		
R480	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	R1355	1-216-081-00	METAL GLAZE	22K 5% 1/10W		
R481	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1356	1-216-079-00	METAL GLAZE	18K 5% 1/10W		
R482	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1359	1-216-093-00	METAL GLAZE	68K 5% 1/10W		
R483	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1360	1-216-017-00	METAL GLAZE	47 5% 1/10W		
R484	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1361	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W		
R485	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1362	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W		
R486	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	R1363	1-216-017-00	METAL GLAZE	47 5% 1/10W		
R487	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1364	1-216-073-00	METAL GLAZE	10K 5% 1/10W		
R488	1-216-077-00	METAL GLAZE	15K 5% 1/10W	R1365	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W		
R489	1-216-025-00	METAL GLAZE	100 5% 1/10W	R1366	1-216-083-00	METAL GLAZE	27K 5% 1/10W		
R490	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	R1367	1-216-240-00	METAL GLAZE	56K 5% 1/8W		
R491	1-216-025-00	METAL GLAZE	100 5% 1/10W	<VARIABLE RESISTOR>					
R492	1-216-073-00	METAL GLAZE	10K 5% 1/10W	RV301	1-241-763-11	RES, ADJ, CARBON	4.7K		
R493	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	RV302	1-241-628-11	RES, ADJ, CARBON	2.2K		
R494	1-216-073-00	METAL GLAZE	10K 5% 1/10W	RV305	1-241-763-11	RES, ADJ, CARBON	4.7K		
R495	1-216-073-00	METAL GLAZE	10K 5% 1/10W	RV306	1-241-765-11	RES, ADJ, CARBON	22K		
R496	1-216-049-00	METAL GLAZE	1K 5% 1/10W	RV307	1-238-019-11	RES, ADJ, CARBON	47K		
R497	1-216-295-91	METAL GLAZE	0 5% 1/10W	<TRANSFORMER>					
R498	1-216-073-00	METAL GLAZE	10K 5% 1/10W	RV308	1-238-019-11	RES, ADJ, CARBON	47K		
R499	1-216-073-00	METAL GLAZE	10K 5% 1/10W	RV309	1-238-019-11	RES, ADJ, CARBON	47K		
R1300	1-216-073-00	METAL GLAZE	10K 5% 1/10W	RV310	1-241-630-11	RES, ADJ, CARBON	10K		
R1301	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W	RV311	1-241-630-11	RES, ADJ, CARBON	10K		
R1302	1-216-037-00	METAL GLAZE	330 5% 1/10W	RV312	1-241-630-11	RES, ADJ, CARBON	10K		
R1303	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	<COIL>					
R1304	1-216-049-00	METAL GLAZE	1K 5% 1/10W	T301	1-404-584-11	COIL			
R1305	1-216-039-00	METAL GLAZE	390 5% 1/10W	<CRYSTAL>					
R1306	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W	RV313	1-241-760-11	RES, ADJ, CARBON	470		
R1307	1-216-025-00	METAL GLAZE	100 5% 1/10W	RV314	1-241-760-11	RES, ADJ, CARBON	470		
R1308	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	<OSCILLATOR>					
R1309	1-216-073-00	METAL GLAZE	10K 5% 1/10W	X301	1-527-722-00	OSCILLATOR, CRYSTAL			
R1310	1-216-073-00	METAL GLAZE	10K 5% 1/10W	X302	1-579-057-11	VIBRATOR, CRYSTAL			
R1311	1-215-413-00	METAL	470 1% 1/4W	*****					
R1312	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W						
R1313	1-216-073-00	METAL GLAZE	10K 5% 1/10W						
R1314	1-216-075-00	METAL GLAZE	12K 5% 1/10W						
R1315	1-216-033-00	METAL GLAZE	220 5% 1/10W						
R1316	1-216-033-00	METAL GLAZE	220 5% 1/10W						
R1320	1-216-073-00	METAL GLAZE	10K 5% 1/10W						
R1321	1-216-079-00	METAL GLAZE	18K 5% 1/10W						

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifique.

**A**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
*A-1297-256-A	A BOARD, COMPLETE (PVM-2950QM(AEP))		*****	C574	1-107-650-11	ELECT	3.3MF 20%
*A-1297-382-A	A BOARD, COMPLETE (PVM-2950QM(AUS))		*****	C575	1-102-038-00	CERAMIC	0.001MF 500V
*A-1297-387-A	A BOARD, COMPLETE (PVM-2950Q) (INCLUDIG M, DX BOARD)		*****	C576	1-124-797-11	ELECT	0.47MF 20% 160V
4-382-854-01	SCREW (M3X8), P, SW (+)			C577	1-123-950-00	ELECT	47MF 20% 250V
	<CAPACITOR>			C578	1-123-024-21	ELECT	33MF 160V
C517	1-106-391-12	MYLAR	0.1MF 10%	C579	1-104-664-11	ELECT	47MF 20% 25V
C518	1-128-577-11	ELECT	0.47MF 20%	C580	1-130-491-00	MYLAR	0.047MF 5% 50V
C519	1-102-110-00	CERAMIC	220PF 10%	C581	1-126-803-11	ELECT	47MF 20% 50V
C520	1-162-318-11	CERAMIC	0.001MF 10%	C582	1-126-803-11	ELECT	47MF 20% 50V
C521	1-162-117-00	CERAMIC	100PF 10%	C583	1-102-114-00	CERAMIC	470PF 10% 50V
C522 A	1-162-116-00	CERAMIC	680PF 10%	C584	1-136-171-00	FILM	0.33MF 5% 50V
C523 A	1-137-604-11	FILM	0.022MF 2%	C585	1-128-528-11	ELECT	470MF 20% 25V
C524 A	1-162-116-00	CERAMIC	680PF 10%	C586	1-126-969-11	ELECT	220MF 20% 50V
C525 A	1-137-515-11	FILM	0.056MF 3%	C587	1-130-471-00	MYLAR	0.001MF 5% 50V
C526	1-137-114-11	FILM	0.68MF 5%	C588	1-124-126-00	ELECT	47MF 20% 16V
C527	1-106-343-00	MYLAR	0.001MF 10%	C589	1-130-467-00	MYLAR	470PF 5% 50V
C528	1-136-105-00	FILM	0.33MF 5%	C590	1-104-664-11	ELECT	47MF 20% 25V
C529	1-104-709-11	ELECT	4.7MF 0	C591	1-124-126-00	ELECT	47MF 20% 16V
C530	1-137-516-11	FILM	1.2MF 5%	C592	1-106-222-00	MYLAR	0.12MF 10% 100V
C531	1-137-116-11	FILM	1MF 5%	C593	1-126-157-11	ELECT	10MF 20% 16V
C532	1-107-652-11	ELECT	10MF 20%	C594	1-126-967-11	ELECT	47MF 20% 50V
C533 A	1-162-116-00	CERAMIC	680PF 10%	C595	1-124-126-00	ELECT	47MF 20% 16V
C535	1-136-165-00	FILM	0.1MF 5%	C596	1-104-664-11	ELECT	10MF 20% 16V
C536	1-124-927-11	ELECT	4.7MF 20%	C597	1-109-889-11	ELECT	1MF 20% 50V
C537	1-106-355-12	MYLAR	0.0033MF 10%	C598	1-124-126-00	ELECT	47MF 20% 16V
C538	1-130-487-00	MYLAR	0.022MF 5%	C599	1-106-222-00	MYLAR	0.12MF 10% 100V
C539	1-136-173-00	FILM	0.47MF 5%	C600	1-126-157-11	ELECT	10MF 20% 16V
C542	1-130-471-00	FILM	0.001MF 5%	C601	1-126-967-11	ELECT	47MF 20% 50V
C543	1-136-161-00	FILM	0.047MF 5%	C602	1-126-157-11	ELECT	10MF 20% 16V
C545	1-126-964-11	ELECT	10MF 20%	C603	1-126-157-11	ELECT	10MF 20% 16V
C546	1-130-471-00	MYLAR	0.001MF 5%	C604	1-126-967-11	ELECT	47MF 20% 50V
C547	1-106-343-00	FILM	0.001MF 5%	C605	1-126-157-11	ELECT	47MF 20% 50V
C548	1-124-902-00	ELECT	0.47MF 20%	C606	1-124-126-00	ELECT	47MF 20% 16V
C549	1-130-471-00	MYLAR	0.001MF 5%	C607	1-126-953-11	ELECT	2200MF 20% 35V
C550	1-104-664-11	ELECT	47MF 20%	C608	1-126-953-11	ELECT	1000MF 20% 35V
C551	1-104-664-11	ELECT	47MF 20%	C609	1-126-953-11	ELECT	2200MF 20% 35V
C552	1-126-964-11	ELECT	10MF 20%	C610	1-136-165-00	FILM	0.1MF 5% 50V
C553	1-136-161-00	FILM	0.047MF 5%	C611	1-136-165-00	FILM	0.1MF 5% 50V
C554	1-136-161-00	FILM	0.047MF 5%	C612	1-126-157-11	ELECT	10MF 20% 16V
C556	1-126-964-11	ELECT	10MF 20%	C613	1-126-953-11	ELECT	2200MF 20% 35V
C557	1-136-169-00	FILM	0.22MF 5%	C614	1-124-126-00	ELECT	47MF 20% 16V
C558	1-129-718-00	FILM	0.022MF 5%	C615	1-136-177-00	FILM	1MF 5% 50V
C559	1-106-387-00	MYLAR	0.068MF 10%	C616	1-107-910-11	ELECT	100MF 20% 50V
C560	1-129-898-00	FILM	0.0022MF 5%	C617	1-130-495-00	MYLAR	0.1MF 5% 50V
C561	1-102-244-00	CERAMIC	220PF 10%	C618	1-130-495-00	MYLAR	0.1MF 5% 50V
C562	1-129-702-00	FILM	0.001MF 10%	C619	1-130-495-00	MYLAR	0.1MF 5% 50V
C563	1-102-228-00	CERAMIC	470PF 10%	C620	1-124-598-11	ELECT	22MF 20% 25V
C564	1-102-228-00	CERAMIC	470PF 10%	C621	1-124-598-11	ELECT	22MF 20% 25V
C565	1-126-941-11	ELECT	470MF 20%	C622	1-126-934-11	ELECT	220MF 20% 16V
C566	1-128-528-11	ELECT	470MF 20%	C623	1-126-941-11	ELECT	10MF 20% 16V
C567	1-126-925-11	ELECT	470MF 20%	C624	1-136-165-00	FILM	0.1MF 5% 50V
C568	1-102-244-00	CERAMIC	220PF 10%	C625	1-126-157-11	ELECT	47MF 20% 16V
C569	1-162-114-00	CERAMIC	0.0047MF 2%	C626	1-124-234-00	ELECT	22MF 20% 16V
C570	1-162-116-00	CERAMIC	680PF 10%	C627	1-102-119-00	CERAMIC	0.0015MF 10% 50V
C571	1-162-116-00	CERAMIC	680PF 10%	C628	1-124-126-00	ELECT	47MF 20% 16V
C572	1-106-359-00	MYLAR	0.0047MF 10%	C629	1-124-126-00	ELECT	47MF 20% 16V
C573	1-126-923-11	ELECT	220MF 20%	C630	1-126-941-11	ELECT	1000MF 20% 16V
				C631	1-104-665-11	ELECT	100MF 20% 25V
				C632	1-126-117-00	CERAMIC	100PF 10% 500V
				C633	1-102-074-00	CERAMIC	0.001MF 10% 50V
				C634	1-136-165-00	FILM	0.1MF 5% 50V
				C635	1-124-126-00	ELECT	47MF 20% 16V
				C636	1-126-941-11	ELECT	10MF 20% 50V
				C637	1-126-941-11	ELECT	10MF 20% 50V
				C638	1-126-941-11	ELECT	10MF 20% 50V
				C639	1-126-941-11	ELECT	10MF 20% 50V
				C640	1-126-941-11	ELECT	10MF 20% 50V
				C641	1-126-941-11	ELECT	10MF 20% 50V
				C642	1-126-941-11	ELECT	10MF 20% 50V
				C643	1-126-941-11	ELECT	10MF 20% 50V
				C644	1-126-941-11	ELECT	10MF 20% 50V
				C645	1-126-941-11	ELECT	10MF 20% 50V
				C646	1-126-941-11	ELECT	10MF 20% 50V
				C647	1-126-941-11	ELECT	10MF 20% 50V
				C648	1-126-941-11	ELECT	10MF 20% 50V
				C649	1-126-941-11	ELECT	10MF 20% 50V
				C650	1-126-941-11	ELECT	10MF 20% 50V
				C651	1-126-941-11	ELECT	10MF 20% 50V
				C652	1-126-941-11	ELECT	10MF 20% 50V
				C653	1-126-941-11	ELECT	10MF 20% 50V
				C654	1-126-941-11	ELECT	10MF 20% 50V
				C655	1-126-941-11	ELECT	10MF 20% 50V
				C656	1-126-941-11	ELECT	10MF 20% 50V
				C657	1-126-941-11	ELECT	10MF 20% 50V
				C658	1-126-941-11	ELECT	10MF 20% 50V
				C659	1-126-941-11	ELECT	10MF 20% 50V
				C660	1-126-941-11	ELECT	10MF 20% 50V
				C661	1-126-941-11	ELECT	10MF 20% 50V
				C662	1-126-941-11	ELECT	10MF 20% 50V
				C663	1-126-941-11	ELECT	10MF 20% 50V
				C664	1-126-941-11	ELECT	10MF 20% 50V
				C665	1-126-941-11	ELECT	10MF 20% 50V
				C666	1-126-941-11	ELECT	10MF 20% 50V
				C667	1-126-941-11	ELECT	10MF 20% 50V
				C668	1-126-941-11	ELECT	10MF 20% 50V
				C669	1-126-941-11	ELECT	10MF 20% 50V
				C670	1-126-941-11	ELECT	10MF 20% 50V
				C671	1-126-941-11	ELECT	10MF 20% 50V
				C672	1-126-941-11	ELECT	10MF 20% 50V
				C673	1-126-941-11	ELECT	10MF 20% 50V

A

REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
C816	1-124-234-00	ELECT	22MF	20%	16V	CN509	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P	
C817	1-124-927-11	ELECT	4.7MF	20%	50V	CN510	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P	
C818	1-124-126-00	ELECT	47MF	20%	16V	CN511	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P	
C819	1-136-165-00	FILM	0.1MF	5%	50V	CN512	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P	
C820	1-126-935-11	ELECT	470MF	20%	16V	CN513	*1-564-508-11	PLUG, CONNECTOR 5P	
C822	1-126-933-11	ELECT	100MF	20%	10V	CN514	*1-564-507-11	PLUG, CONNECTOR 4P	
C823	1-106-371-00	MYLAR	0.015MF	10%	100V	CN515	*1-564-508-11	PLUG, CONNECTOR 5P	
C901	1-136-173-00	FILM	0.47MF	5%	50V	CN520	*1-564-512-11	PLUG, CONNECTOR 9P	
C902	1-126-964-11	ELECT	10MF	20%	50V	CN530	1-573-296-11	CONNECTOR, BOARD TO BOARD 10P	
C903	1-136-169-00	FILM	0.22MF	5%	50V	CN1804	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
C904	1-130-471-00	MYLAR	0.001MF	5%	50V	CN1805	1-573-297-11	CONNECTOR, BOARD TO BOARD 18P	
C905	1-126-964-11	ELECT	10MF	20%	50V	DY1	*1-580-798-11	CONNECTOR PIN (DY) 6P	
C906	1-124-798-11	ELECT	1MF	20%	160V	DY-2	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
C908	1-102-112-00	CERAMIC	330PF	10%	50V				
C910	1-136-103-00	FILM	0.1MF	5%	200V			<DIODE>	
C911	1-136-165-00	FILM	0.1MF	5%	50V	D505	8-719-110-78	DIODE RD33ESB2	
C914	1-106-367-00	MYLAR	0.01MF	10%	100V	D506	8-719-911-19	DIODE ISS119	
C915	1-124-903-11	ELECT	1MF	20%	50V	D507	8-719-911-19	DIODE ISS119	
C917	1-130-471-00	MYLAR	0.001MF	5%	50V	D508	8-719-911-19	DIODE ISS119	
C918	1-102-074-00	CERAMIC	0.001MF	10%	50V	D509	8-719-970-87	DIODE ERA38-06	
C920	1-136-601-11	FILM	0.01MF	5%	630V	D510	8-719-302-43	DIODE EL1Z	
C923	1-130-471-00	MYLAR	0.001MF	5%	50V	D511	8-719-300-33	DIODE RU-3AM	
C925	1-126-964-11	ELECT	10MF	20%	50V	D512	8-719-979-85	DIODE EGP20G	
C926	1-136-165-00	FILM	0.1MF	5%	50V	D513	8-719-312-72	DIODE RU30A	
C927	1-136-171-00	FILM	0.33MF	5%	50V	D515	8-719-302-43	DIODE EL1Z	
C928	1-126-964-11	ELECT	10MF	20%	50V	D516	8-719-018-82	DIODE RGP02-20EL-6394	
C930	1-136-153-00	FILM	0.01MF	5%	50V	D517	8-719-110-03	DIODE RD7.5ESB2	
C932	1-130-475-00	MYLAR	0.0022MF	5%	50V	D519	8-719-911-19	DIODE ISS119	
C1601	1-102-106-00	CERAMIC	100PF	10%	50V	D520	8-719-908-03	DIODE GP08D	
C1602	1-102-114-00	CERAMIC	470PF	10%	50V	D521	8-719-110-78	DIODE RD33ESB2	
C1603	1-130-481-00	MYLAR	0.0068MF	5%	50V	D522	8-719-911-19	DIODE ISS119	
C1604	1-124-903-11	ELECT	1MF	20%	50V	D523	8-719-911-19	DIODE ISS119	
C1605	1-124-925-11	ELECT	2.2MF	20%	50V	D524	8-719-028-72	DIODE RGP02-17EL-6433	
C1606	1-130-483-00	MYLAR	0.01MF	5%	50V	D525	8-719-109-88	DIODE RD5.6ESB1	
C1607	1-124-903-11	ELECT	1MF	20%	50V	D526	8-719-109-93	DIODE RD6.2ESB2	
C1608	1-130-479-00	MYLAR	0.0047MF	5%	50V	D530	8-719-510-48	DIODE D1N20R	
C1610	1-130-499-00	MYLAR	0.22MF	5%	50V	D531	8-719-510-48	DIODE D1N20R	
C1611	1-130-481-00	MYLAR	0.0068MF	5%	50V	D532	8-719-110-90	DIODE RD39ESB4	
C1612	1-124-927-11	ELECT	4.7MF	20%	50V	D533	8-719-911-19	DIODE ISS119	
C1613	1-130-475-00	MYLAR	0.0022MF	5%	50V	D534	8-719-911-19	DIODE ISS119	
C1614	1-126-964-11	ELECT	10MF	20%	50V	D535	8-719-911-19	DIODE ISS119	
C1620	1-136-161-00	FILM	0.047MF	5%	50V	D550	8-719-911-19	DIODE ISS119	
C1621	1-102-110-00	CERAMIC	220PF	10%	50V	D551	8-719-981-50	DIODE RB-100A	
C1627	1-136-173-00	FILM	0.47MF	5%	50V	D650	8-719-109-88	DIODE RD5.6ESB1	
C1670	1-126-964-11	ELECT	10MF	20%	50V	D652	8-719-911-19	DIODE ISS119	
C1671	1-101-361-00	CERAMIC	150PF	5%	50V	D653	8-719-911-19	DIODE ISS119	
C1672	1-101-361-00	CERAMIC	150PF	5%	50V	D654	8-719-109-54	DIODE RD2.2ESB2	
C1673	1-101-361-00	CERAMIC	150PF	5%	50V	D655	8-719-911-19	DIODE ISS119	
C1674	1-124-925-11	ELECT	2.2MF	20%	50V	D680	8-719-109-88	DIODE RD5.6ESB1	
C1675	1-136-153-00	FILM	0.01MF	5%	50V	D681	8-719-911-19	DIODE ISS119	
C1676	1-136-169-00	FILM	0.22MF	5%	50V	D682	8-719-911-19	DIODE ISS119 (PVM-2950Q/2950QM(AUS))	
C1677	1-126-964-11	ELECT	10MF	20%	50V	D683	8-719-911-19	DIODE ISS119 (PVM-2950Q/2950QM(AUS))	
C1678	1-102-110-00	CERAMIC	220PF	10%	50V	D684	8-719-911-19	DIODE ISS119	
C1680	1-124-925-11	ELECT	2.2MF	20%	50V	D801	8-719-987-87	DIODE ERA85-009	
C1681	1-124-126-00	ELECT	47MF	20%	16V	D804	8-719-911-19	DIODE ISS119	
C1813	1-136-756-11	FILM	0.24MF	5%	200V	D805	8-719-801-35	THYRISTOR SH03D42	
C1825	1-106-391-12	MYLAR	0.1MF	10%	200V	D806	8-719-980-78	DIODE ERA83-006	
					D807	8-719-980-78	DIODE ERA83-006		
					D808	8-719-911-19	DIODE ISS119		
					D809	8-719-911-19	DIODE ISS119		
CN501	*1-573-986-11	PIN, CONNECTOR (PC BOARD)	5P		D810	8-719-911-19	DIODE ISS119		
CN507	*1-573-964-11	PIN, CONNECTOR (PC BOARD)	6P		D811	8-719-302-43	DIODE EL1Z		
CN508	1-573-297-11	CONNECTOR, BOARD TO BOARD	18P						

<CONNECTOR>

CN501 \*1-573-986-11 PIN, CONNECTOR (PC BOARD) 5P  
CN507 \*1-573-964-11 PIN, CONNECTOR (PC BOARD) 6P  
CN508 1-573-297-11 CONNECTOR, BOARD TO BOARD 18P

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

**Les composants identifies par une trame et une marque  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.**

A

A

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<b>&lt;RESISTOR&gt;</b>							
R522	1-249-411-11	CARBON	330 5% 1/4W	R589	1-249-441-11	CARBON	100K 5% 1/4W
R523	1-249-423-11	CARBON	3.3K 5% 1/4W	R590	1-247-901-11	CARBON	820K 5% 1/4W
R524	1-260-331-11	CARBON	1.8K 5% 1/2W	R591	1-215-881-11	METAL OXIDE	15 5% 2W F
R525	1-216-480-11	METAL OXIDE	820 5% 3W	R592	1-260-320-11	CARBON	220 5% 1/2W
R526	1-216-480-11	METAL OXIDE	820 5% 3W	R598	1-215-882-00	METAL OXIDE	22 5% 2W F
R527	1-249-401-11	CARBON	47 5% 1/4W	R599	1-249-437-11	CARBON	47K 5% 1/4W
R528	1-249-397-11	CARBON	22 5% 1/4W	R600	1-249-429-11	CARBON	10K 5% 1/4W
R529	1-249-393-11	CARBON	10 5% 1/4W	R601	1-249-437-11	CARBON	47K 5% 1/4W
R530	1-249-393-11	CARBON	10 5% 1/4W	R602	1-215-453-00	METAL	22K 1% 1/4W
R531	1-249-425-11	CARBON	4.7K 5% 1/4W	R604	1-215-455-00	METAL	27K 1% 1/4W
R532	1-247-887-00	CARBON	220K 5% 1/4W	R605	1-216-370-11	METAL OXIDE	1.2 5% 2W F
R533	1-215-878-00	METAL OXIDE	33K 5% 1W	R606	1-215-913-11	METAL OXIDE	220 5% 3W F
R534	1-249-437-11	CARBON	47K 5% 1/4W	R607	1-249-383-11	CARBON	1.5 5% 1/4W F
R535	1-215-473-00	METAL	150K 1% 1/4W	R610	1-249-432-11	CARBON	18K 5% 1/4W
R536	1-215-445-00	METAL	10K 1% 1/4W	R611	1-249-432-11	CARBON	18K 5% 1/4W
R537	1-215-463-00	METAL	56K 1% 1/4W	R612	1-249-425-11	CARBON	4.7K 5% 1/4W
R538	1-215-449-00	METAL	15K 1% 1/4W	R613	1-249-437-11	CARBON	47K 5% 1/4W
R539	1-249-425-11	CARBON	4.7K 5% 1/4W	R614	1-249-421-11	CARBON	2.2K 5% 1/4W
R542	1-249-434-11	CARBON	27K 5% 1/4W	R615	1-249-409-11	CARBON	220 5% 1/4W
R545	1-247-889-00	CARBON	270K 5% 1/4W	R620	1-249-424-11	CARBON	3.9K 5% 1/4W
R546	1-249-441-11	CARBON	100K 5% 1/4W	R621	1-249-424-11	CARBON	3.9K 5% 1/4W
R547	1-249-441-11	CARBON	100K 5% 1/4W	R622	1-249-410-11	CARBON	270 5% 1/4W
R548	1-215-449-00	METAL	15K 1% 1/4W	R623	1-249-425-11	CARBON	4.7K 5% 1/4W
R549	1-249-441-11	CARBON	100K 5% 1/4W	R624	1-249-425-11	CARBON	4.7K 5% 1/4W
R550	1-215-441-00	METAL	6.8K 1% 1/4W	R625	1-249-410-11	CARBON	270 5% 1/4W
R551	1-215-457-00	METAL	33K 1% 1/4W	R626	1-249-433-11	CARBON	22K 5% 1/4W
R552	1-215-465-00	METAL	68K 1% 1/4W	R627	1-249-433-11	CARBON	22K 5% 1/4W
R553	1-247-903-00	CARBON	1M 5% 1/4W	R628	1-249-441-11	CARBON	100K 5% 1/4W
R554	1-249-419-11	CARBON	1.5K 5% 1/4W	R629	1-247-883-00	CARBON	150K 5% 1/4W
R555	1-249-438-11	CARBON	56K 5% 1/4W	R630	1-249-398-11	CARBON	27 5% 1/4W F
R556	1-249-423-11	CARBON	3.3K 5% 1/4W	R631	1-249-441-11	CARBON	100K 5% 1/4W
R557	1-249-435-11	CARBON	33K 5% 1/4W	R632	1-249-385-11	CARBON	2.2 5% 1/4W F
R558	1-249-433-11	CARBON	22K 5% 1/4W	R633	1-249-385-11	CARBON	2.2 5% 1/4W F
R559	1-249-417-11	CARBON	1K 5% 1/4W	R634	1-215-888-00	METAL OXIDE	220 5% 2W F
R560	1-249-429-11	CARBON	10K 5% 1/4W	R635	1-215-444-00	METAL	9.1K 1% 1/4W
R561	1-249-437-11	CARBON	47K 5% 1/4W	R636	1-215-425-00	METAL	1.5K 1% 1/4W
R562	1-249-437-11	CARBON	47K 5% 1/4W	R637	1-249-429-11	CARBON	10K 5% 1/4W
R563	1-249-441-11	CARBON	100K 5% 1/4W	R638	1-249-417-11	CARBON	1K 5% 1/4W
R564	1-249-415-11	CARBON	680 5% 1/4W	R650	1-216-382-11	METAL OXIDE	0.27 5% 3W F
R565	1-215-450-00	METAL	16K 1% 1/4W	R651	1-249-417-11	CARBON	1K 5% 1/4W F
R566	1-249-410-11	CARBON	270 5% 1/4W	R652	1-249-405-11	CARBON	100 5% 1/4W F
R567	1-249-402-11	CARBON	56 5% 1/4W	R670	1-249-409-11	CARBON	220 5% 1/4W
R568	1-249-411-11	CARBON	330 5% 1/4W	R671	1-249-429-11	CARBON	10K 5% 1/4W
R569	1-249-441-11	CARBON	100K 5% 1/4W	R680	1-249-426-11	CARBON	5.6K 5% 1/4W
R570	1-249-441-11	CARBON	100K 5% 1/4W	R682	1-249-409-11	CARBON	220 5% 1/4W F
R571	1-249-441-11	CARBON	100K 5% 1/4W	R683	1-249-429-11	CARBON	10K 5% 1/4W
R572	1-216-439-00	METAL OXIDE	12K 5% 1W	R684	1-249-425-11	CARBON	4.7K 5% 1/4W
R573	1-216-459-00	METAL OXIDE	2.7K 5% 2W	R685	1-249-425-11	CARBON	4.7K 5% 1/4W
R574	1-216-459-00	METAL OXIDE	2.7K 5% 2W	R686	1-249-423-11	CARBON	3.3K 5% 1/4W
R575	1-202-826-00	SOLID	4.7K 20% 1/2W	R687	1-247-807-31	CARBON	100 5% 1/4W
R576	1-259-882-11	CARBON	3.3M 5% 1/4W	R688	1-216-455-11	METAL OXIDE	560 5% 2W F
R577	1-249-443-11	CARBON	0.47 5% 1/4W	R689	1-215-471-00	METAL	120K 1% 1/4W
R578	1-249-443-11	CARBON	0.47 5% 1/4W	R801	1-249-409-11	CARBON	220 5% 1/4W
R580	1-249-496-11	CARBON	100K 5% 1/2W	R802	1-249-409-11	CARBON	220 5% 1/4W
R581 $\Delta$	1-249-417-11	CARBON	1K 5% 1/4W	R804	1-247-891-00	CARBON	330K 5% 1/4W
R582	1-249-417-11	CARBON	1K 5% 1/4W	R808	1-215-463-00	METAL	56K 1% 1/4W
R583 $\Delta$				R809	1-249-423-11	CARBON	3.3K 5% 1/4W
R584	1-249-425-11	CARBON	4.7K 5% 1/4W	R810	1-249-413-11	CARBON	470 5% 1/4W
R585	1-249-425-11	CARBON	4.7K 5% 1/4W	R811	1-249-434-11	CARBON	27K 5% 1/4W
R586	1-247-903-00	CARBON	1M 5% 1/4W	R812	1-249-438-11	CARBON	56K 5% 1/4W
R587	1-249-440-11	CARBON	82K 5% 1/4W	R813	1-249-417-11	CARBON	1K 5% 1/4W
R588	1-215-869-11	METAL OXIDE	1K 5% 1W	R814	1-249-429-11	CARBON	10K 5% 1/4W
			F	R815	1-249-427-11	CARBON	6.8K 5% 1/4W
				R816	1-249-425-11	CARBON	4.7K 5% 1/4W

\* The components identified by  $\blacksquare$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R817	1-249-422-11	CARBON	2.7K 5% 1/4W	R938	1-247-807-31	CARBON	100 5% 1/4W
R818	1-249-417-11	CARBON	1K 5% 1/4W	R939	1-249-405-11	CARBON	100 5% 1/4W F
R820	1-249-417-11	CARBON	1K 5% 1/4W	R940	1-249-405-11	CARBON	100 5% 1/4W F
R821	1-216-379-11	METAL OXIDE	6.8 5% 2W F	R941	1-247-807-31	CARBON	100 5% 1/4W
R822	1-249-423-11	CARBON	3.3K 5% 1/4W F	R944	1-249-432-11	CARBON	18K 5% 1/4W
R824	1-249-419-11	CARBON	1.5K 5% 1/4W F	R945	1-247-895-00	CARBON	470K 5% 1/4W
R825	1-215-857-11	METAL OXIDE	10 5% 1W F	R946	1-249-425-11	CARBON	4.7K 5% 1/4W
R826	1-249-404-00	CARBON	82 5% 1/4W F	R947	1-249-419-11	CARBON	1.5K 5% 1/4W F
R827	1-216-438-11	METAL OXIDE	8.2K 5% 1W F	R948	1-249-435-11	CARBON	33K 5% 1/4W
R828	1-249-441-11	CARBON	100K 5% 1/4W	R950	1-249-425-11	CARBON	4.7K 5% 1/4W
R829	1-249-414-11	CARBON	560 5% 1/4W	R952	1-247-807-31	CARBON	100 5% 1/4W
R830	1-249-411-11	CARBON	330 5% 1/4W	R953	1-247-889-00	CARBON	270K 5% 1/4W
R831	1-249-426-11	CARBON	5.6K 5% 1/4W	R954	1-247-889-00	CARBON	270K 5% 1/4W
R832	1-215-864-00	METAL OXIDE	150 5% 1W F	R956	1-249-433-11	CARBON	22K 5% 1/4W
R833	1-249-421-11	CARBON	2.2K 5% 1/4W	R1601	1-215-461-00	METAL	47K 1% 1/4W
R834	1-249-433-11	CARBON	22K 5% 1/4W	R1602	1-249-429-11	CARBON	10K 5% 1/4W
R835	1-249-393-11	CARBON	10 5% 1/4W	R1603	1-215-451-00	METAL	18K 1% 1/4W
R836	1-249-435-11	CARBON	33K 5% 1/4W	R1604	1-215-445-00	METAL	10K 1% 1/4W
R837	1-249-435-11	CARBON	33K 5% 1/4W	R1605	1-215-421-00	METAL	1K 1% 1/4W
R838	1-215-857-11	METAL OXIDE	10 5% 1W F	R1606	1-249-423-11	CARBON	3.3K 5% 1/4W
R839	1-249-410-11	CARBON	270 5% 1/4W	R1607	1-249-436-11	CARBON	39K 5% 1/4W
R840	1-249-429-11	CARBON	10K 5% 1/4W	R1608	1-215-445-00	METAL	10K 1% 1/4W
R841	1-249-437-11	CARBON	47K 5% 1/4W	R1609	1-215-445-00	METAL	10K 1% 1/4W
R842	1-249-429-11	CARBON	10K 5% 1/4W	R1610	1-249-423-11	CARBON	3.3K 5% 1/4W
R843	1-249-421-11	CARBON	2.2K 5% 1/4W	R1611	1-249-421-11	CARBON	2.2K 5% 1/4W
R844	1-249-421-11	CARBON	2.2K 5% 1/4W	R1612	1-215-467-00	METAL	82K 1% 1/4W
R845	1-249-417-11	CARBON	1K 5% 1/4W	R1613	1-215-469-00	METAL	100K 1% 1/4W
R901	1-249-425-11	CARBON	4.7K 5% 1/4W	R1614	1-249-430-11	CARBON	12K 5% 1/4W
R902	1-249-438-11	CARBON	56K 5% 1/4W	R1615	1-249-431-11	CARBON	15K 5% 1/4W
R903	1-249-429-11	CARBON	10K 5% 1/4W	R1616	1-247-807-31	CARBON	100 5% 1/4W
R904	1-249-429-11	CARBON	10K 5% 1/4W	R1617	1-249-431-11	CARBON	15K 5% 1/4W
R905	1-249-429-11	CARBON	10K 5% 1/4W	R1618	1-249-429-11	CARBON	10K 5% 1/4W
R906	1-249-425-11	CARBON	4.7K 5% 1/4W	R1619	1-249-437-11	CARBON	47K 5% 1/4W
R907	1-249-429-11	CARBON	10K 5% 1/4W	R1622	1-249-428-11	CARBON	8.2K 5% 1/4W
R908	1-249-434-11	CARBON	27K 5% 1/4W	R1623	1-249-427-11	CARBON	6.8K 5% 1/4W
R909	1-215-465-00	METAL	68K 1% 1/4W	R1624	1-249-429-11	CARBON	10K 5% 1/4W
R910	1-215-457-00	METAL	33K 1% 1/4W	R1625	1-249-433-11	CARBON	22K 5% 1/4W
R911	1-249-441-11	CARBON	100K 5% 1/4W	R1626	1-249-440-11	CARBON	82K 5% 1/4W
R912	1-249-429-11	CARBON	10K 5% 1/4W	R1631	1-249-425-11	CARBON	4.7K 5% 1/4W
R913	1-249-425-11	CARBON	4.7K 5% 1/4W	R1635	1-215-437-00	METAL	4.7K 1% 1/4W
R914	1-249-401-11	CARBON	47 5% 1/4W	R1636	1-247-887-00	CARBON	220K 5% 1/4W
R915	1-249-425-11	CARBON	4.7K 5% 1/4W	R1637	1-215-439-00	METAL	5.6K 1% 1/4W
R916	1-249-421-11	CARBON	2.2K 5% 1/4W	R1638	1-215-439-00	METAL	5.6K 1% 1/4W
R917	1-249-439-11	CARBON	68K 5% 1/4W	R1639	1-249-434-11	CARBON	27K 5% 1/4W
R918	1-249-413-11	CARBON	470 5% 1/4W	R1640	1-215-433-00	METAL	3.3K 1% 1/4W
R919	1-249-437-11	CARBON	47K 5% 1/4W	R1641	1-215-437-00	METAL	4.7K 1% 1/4W
R920	1-249-418-11	CARBON	1.2K 5% 1/4W F	R1642	1-249-426-11	CARBON	5.6K 5% 1/4W
R921	1-215-876-00	METAL OXIDE	15K 5% 1W F	R1643	1-215-455-00	METAL	27K 1% 1/4W
R922	1-215-870-11	METAL OXIDE	1.5K 5% 1W F	R1660	1-215-424-00	METAL	1.3K 1% 1/4W
R923	1-249-429-11	CARBON	10K 5% 1/4W	R1661	1-215-451-00	METAL	18K 1% 1/4W
R924	1-249-423-11	CARBON	3.3K 5% 1/4W	R1662	1-249-441-11	CARBON	100K 5% 1/4W
R925	1-249-415-11	CARBON	680 5% 1/4W	R1663	1-249-428-11	CARBON	8.2K 5% 1/4W
R926	1-249-409-11	CARBON	220 5% 1/4W	R1664	1-249-425-11	CARBON	4.7K 5% 1/4W
R927	1-249-429-11	CARBON	10K 5% 1/4W	R1665	1-249-425-11	CARBON	4.7K 5% 1/4W
R928	1-249-421-11	CARBON	2.2K 5% 1/4W	R1666	1-249-429-11	CARBON	10K 5% 1/4W
R929	1-249-429-11	CARBON	10K 5% 1/4W	R1667	1-247-807-31	CARBON	100 5% 1/4W
R930	1-249-434-11	CARBON	27K 5% 1/4W	R1668	1-249-429-11	CARBON	10K 5% 1/4W
R931	1-249-421-11	CARBON	2.2K 5% 1/4W	R1669	1-249-437-11	CARBON	47K 5% 1/4W
R933	1-249-421-11	CARBON	2.2K 5% 1/4W	R1670	1-249-429-11	CARBON	10K 5% 1/4W
R934	1-249-439-11	CARBON	68K 5% 1/4W	R1671	1-249-429-11	CARBON	10K 5% 1/4W
R935	1-249-429-11	CARBON	10K 5% 1/4W	R1672	1-249-433-11	CARBON	22K 5% 1/4W
R936	1-249-429-11	CARBON	10K 5% 1/4W	R1673	1-215-445-00	METAL	10K 1% 1/4W
R937	1-249-421-11	CARBON	2.2K 5% 1/4W	R1674	1-249-421-11	CARBON	2.2K 5% 1/4W

A M

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

M	DX
---	----

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK		
R813	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1511	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V		
R814	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1512	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
R815	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1513	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V		
R816	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1515	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R817	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1517	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R818	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1518	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
R819	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1519	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V		
R821	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1520	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V		
R822	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1521	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V		
R823	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1522	1-136-171-00	FILM 0.33MF	5% 50V		
R824	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1523	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V		
R825	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1524	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V		
R826	1-216-033-00	METAL GLAZE	220 5% 1/10W	C1525	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V		
R827	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1526	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
R828	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1528	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R829	1-216-033-00	METAL GLAZE	220 5% 1/10W	C1529	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R830	1-216-033-00	METAL GLAZE	220 5% 1/10W	C1534	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R831	1-216-089-91	METAL GLAZE	47K 5% 1/10W	C1537	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R832	1-216-089-91	METAL GLAZE	47K 5% 1/10W	C1538	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R833	1-216-089-91	METAL GLAZE	47K 5% 1/10W	C1539	1-104-665-11	ELECT 100MF	20% 25V		
R834	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1540	1-104-665-11	ELECT 100MF	20% 25V		
R835	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1541	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R836	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C1542	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R837	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C1543	1-163-031-11	CERAMIC CHIP 0.01MF	50V		
R838	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1545	1-124-927-11	ELECT 4.7MF	20% 50V		
R839	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1550	1-136-177-00	FILM 1MF	5% 50V		
R840	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1551	1-126-157-11	ELECT 10MF	20% 16V		
R841	1-216-025-00	METAL GLAZE	100 5% 1/10W	C1552	1-136-159-00	FILM 0.033MF	5% 50V		
R842	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C1590	1-162-638-11	CERAMIC CHIP 1MF	16V		
R843	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C1591	1-162-638-11	CERAMIC CHIP 1MF	16V		
R844	1-216-033-00	METAL GLAZE	220 5% 1/10W	C1592	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V		
R845	1-216-033-00	METAL GLAZE	220 5% 1/10W	<CONNECTOR>					
R846	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W	CN1501 1-573-965-21 PIN, CONNECTOR (PC BOARD) 50P					
R848	1-216-025-00	METAL GLAZE	100 5% 1/10W	<DIODE>					
R849	1-216-033-00	METAL GLAZE	220 5% 1/10W	D1501	8-719-404-46	DIODE MA110			
R850	1-216-033-00	METAL GLAZE	220 5% 1/10W	D1502	8-719-037-03	DIODE RD6.8SB1-T1			
R851	1-216-033-00	METAL GLAZE	220 5% 1/10W	D1505	8-719-404-46	DIODE MA110			
R852	1-216-025-00	METAL GLAZE	100 5% 1/10W	D1506	8-719-404-46	DIODE MA110			
R853	1-216-049-00	METAL GLAZE	1K 5% 1/10W	D1507	8-719-404-46	DIODE MA110			
R854	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	D1508	8-719-404-46	DIODE MA110			
R855	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	D1590	8-719-033-52	DIODE RD5.1SB1-T1			
R856	1-216-073-00	METAL GLAZE	10K 5% 1/10W	D1591	8-719-404-46	DIODE MA110			
<CRYSTAL>						<IC>			
X801	1-760-040-11	VIBRATOR, CRYSTAL		IC1501	8-752-347-92	IC CXD2018Q			
*****						IC1502	8-752-347-92	IC CXD2018Q	
*A-1341-764-A DX BOARD, COMPLETE						IC1503	8-759-970-89	IC BA10358F	
*****						IC1504	8-759-970-89	IC BA10358F	
<CAPACITOR>						IC1505	8-759-970-89	IC BA10358F	
C1501	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1506	8-752-058-68	IC CXA1315M			
C1502	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1507	8-759-032-16	IC MC74HC08AF-T2			
C1503	1-163-031-11	CERAMIC CHIP 0.01MF	50V	IC1508	8-759-032-16	IC MC74HC08AF-T2			
C1504	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	IC1509	8-759-925-80	IC SN74HC14ANS			
C1505	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	IC1511	8-759-032-20	IC MC74HC32AF			
C1506	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	IC1514	8-759-236-47	IC TC74HC164AF (EL)			
C1507	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V	IC1516	8-759-236-47	IC TC74HC164AF (EL)			
C1508	1-136-171-00	FILM 0.33MF	5% 50V	IC1518	8-759-970-89	IC BA10358F			
C1509	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V	IC1590	8-759-970-89	IC BA10358F			
C1510	1-163-011-11	CERAMIC CHIP 0.0015MF	10% 50V						

**DX G1 G (PVM-2950Q)**

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK				
<COIL>											
L1501	1-408-409-00	INDUCTOR	10UH	R1561	1-216-113-00	METAL GLAZE	470K 5% 1/10W				
L1502	1-408-409-00	INDUCTOR	10UH	R1562	1-216-097-00	METAL GLAZE	100K 5% 1/10W				
L1503	1-408-409-00	INDUCTOR	10UH	R1570	1-216-095-00	METAL GLAZE	82K 5% 1/10W				
L1504	1-408-409-00	INDUCTOR	10UH	R1571	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
				R1572	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
<TRANSISTOR>											
Q1501	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1573	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
Q1502	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1574	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
Q1503	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1575	1-216-089-91	METAL GLAZE	47K 5% 1/10W				
Q1504	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1576	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
Q1590	8-729-216-22	TRANSISTOR	2SA1162-G	R1577	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W				
Q1591	8-729-120-28	TRANSISTOR	2SC1623-L5L6	R1578	1-216-097-00	METAL GLAZE	100K 5% 1/10W				
				R1579	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
<RESISTOR>											
R1501	1-216-075-00	METAL GLAZE	12K 5% 1/10W	R1590	1-216-105-00	METAL GLAZE	220K 5% 1/10W				
R1502	1-216-091-00	METAL GLAZE	56K 5% 1/10W	R1591	1-216-063-00	METAL GLAZE	3.9K 5% 1/10W				
R1503	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1592	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W				
R1504	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	R1593	1-216-668-11	METAL CHIP	5.1K 0.50% 1/10W				
R1505	1-216-073-00	METAL GLAZE	10K 5% 1/10W	R1594	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1506	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1595	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1507	1-216-085-00	METAL GLAZE	33K 5% 1/10W	R1596	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R1508	1-216-109-00	METAL GLAZE	330K 5% 1/10W	R1597	1-216-073-00	METAL GLAZE	10K 5% 1/10W				
R1509	1-216-049-00	METAL GLAZE	1K 5% 1/10W	R1598	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W				
R1510	1-216-049-00	METAL GLAZE	1K 5% 1/10W	*****							
R1512	1-216-049-00	METAL GLAZE	1K 5% 1/10W	*A-1311-363-A G1 BOARD, COMPLETE (PVM-2950Q)							
R1513	1-216-073-00	METAL GLAZE	10K 5% 1/10W	*****							
R1514	1-216-075-00	METAL GLAZE	12K 5% 1/10W	*A-1311-365-A G1 BOARD, COMPLETE (PVM-2950QM)							
R1515	1-216-091-00	METAL GLAZE	56K 5% 1/10W	*****							
R1517	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	<CAPACITOR>							
R1518	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C601	A1-162-599-12	CERAMIC	0.0047MF 20% 400V				
R1519	1-216-085-00	METAL GLAZE	33K 5% 1/10W	CN602 *1-508-786-00 PIN, CONNECTOR (5MM PITCH) 2P							
R1520	1-216-085-00	METAL GLAZE	33K 5% 1/10W	CN603	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P					
R1521	1-216-109-00	METAL GLAZE	330K 5% 1/10W	CN604	*1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P					
R1522	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	CN610	*1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P					
R1523	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	CN611	*1-537-711-11	TAB, FASTEN (PCB)					
R1524	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	<CONNECTOR>							
R1525	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	<THERMISTOR>							
R1526	1-216-073-00	METAL GLAZE	10K 5% 1/10W	THP601A1-809-539-11 THERMISTOR, POSITIVE (PVM-2950Q)							
R1527	1-216-073-00	METAL GLAZE	10K 5% 1/10W	A1-809-827-11 THERMISTOR, POSITIVE (PVM-2950QM)							
R1528	1-216-083-00	METAL GLAZE	27K 5% 1/10W	*****							
R1529	1-216-047-00	METAL GLAZE	820 5% 1/10W	*A-1316-181-A G BOARD, COMPLETE (PVM-2950Q)							
R1530	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W	*****							
R1532	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W	4-382-854-11 SCREW (M3X10), P, SW (+)							
R1533	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	<CAPACITOR>							
R1534	1-216-049-00	METAL GLAZE	1K 5% 1/10W	1-533-223-11 CLIP, FUSE							
R1535	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W	4-382-854-11 SCREW (M3X10), P, SW (+)							
R1536	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C602 A1-104-706-11 FILM							
R1539	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W	C603 A1-104-706-11 FILM							
R1541	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C604 A1-162-599-12 CERAMIC							
R1542	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C605 A1-162-599-12 CERAMIC							
R1547	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C606 1-104-346-11 ELECT							
R1548	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W	C610 1-136-067-00 FILM							
R1549	1-216-049-00	METAL GLAZE	1K 5% 1/10W	C611 1-106-357-00 MYLAR							
R1550	1-216-025-00	METAL GLAZE	100 5% 1/10W	C612 1-124-927-11 ELECT							
R1551	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C613 1-126-948-11 ELECT							
R1552	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C614 1-126-948-11 CERAMIC							
R1553	1-216-073-00	METAL GLAZE	10K 5% 1/10W	C615 A1-162-599-12 CERAMIC							
R1554	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W	C616 1-136-067-00 FILM							
R1560	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W	C617 1-106-357-00 MYLAR							

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifique.

**G (PVM-2950Q)**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
C616	$\Delta$ 1-162-599-12	CERAMIC	0.0047MF 20%	400V	FB621	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C617	1-102-116-00	CERAMIC	680PF 10%	50V	FB622	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C620	1-161-754-00	CERAMIC	0.001MF 10%	2KV	FB623	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
C621	1-125-494-11	ELECT(BLOCK)	560MF 20%	160V				
C622	1-126-933-11	ELECT	100MF 20%	10V				
C625	1-162-318-11	CERAMIC	0.001MF 10%	500V				
C626	1-126-943-11	ELECT	2200MF 20%	25V				
C627	1-162-318-11	CERAMIC	0.001MF 10%	500V	IC601	8-749-010-03	IC STR-M6515A	
C628	1-126-943-11	ELECT	2200MF 20%	25V	IC620	8-749-920-61	IC SE-135N	
C629	1-162-318-11	CERAMIC	0.001MF 10%	500V	IC641	8-759-701-56	IC NJM78M05FA	
C630	1-126-953-11	ELECT	2200MF 20%	35V				
C640	1-126-972-31	ELECT	1000MF 20%	50V				
C642	1-126-967-11	ELECT	47MF 20%	50V	L620	1-406-663-21	COIL, CHOKE	47UH
C643	1-126-964-11	ELECT	10MF 20%	50V	L621	1-412-533-21	INDUCTOR	47UH
C644	1-126-964-11	ELECT	10MF 20%	50V	L622	1-412-533-21	INDUCTOR	47UH
C645	1-126-933-11	ELECT	100MF 20%	10V	L623	1-412-527-11	INDUCTOR	15UH
C646	1-126-964-11	ELECT	10MF 20%	50V	L624	1-412-527-11	INDUCTOR	15UH
C647	1-126-933-11	ELECT	100MF 20%	16V				
C660	$\Delta$ 1-161-742-00	CERAMIC	0.0022MF 20%	400V				
C661	$\Delta$ 1-161-742-00	CERAMIC	0.0022MF 20%	400V				
<CONNECTOR>								
CN601	*1-580-843-11	PIN, CONNECTOR (POWER)						
CN605	*1-564-508-11	PLUG, CONNECTOR 5P						
CN606	*1-573-986-11	PIN, CONNECTOR (PC BOARD) 5P						
CN607	*1-564-507-11	PLUG, CONNECTOR 4P						
CN609	*1-691-134-11	PIN, CONNECTOR (PC BOARD) 2P						
<DIODE>								
D601	8-719-022-99	DIODE D6SB60L						
D604	8-719-979-58	DIODE EGP10D						
D605	8-719-911-19	DIODE ISS119						
D607	8-719-979-58	DIODE EGP10D						
D620	8-719-029-04	DIODE D5L60						
D621	8-719-920-67	DIODE ERC91-02						
D622	8-719-045-48	DIODE FML-G12S						
D623	8-719-920-67	DIODE ERC91-02						
D625	8-719-911-19	DIODE ISS119						
D640	8-719-511-40	DIODE S1VB40						
D641	8-719-911-19	DIODE ISS119						
D643	8-719-911-19	DIODE ISS119						
D645	8-719-110-36	DIODE RD13ESB2						
D646	8-719-911-19	DIODE ISS119						
D647	8-719-109-89	DIODE RD5.6ESB2						
D648	8-719-911-19	DIODE ISS119						
<FUSE>								
F601	$\Delta$ 1-532-748-11	FUSE, GLASS TUBE (6.3A/125V)						
<FERRITE BEAD>								
FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH						
FB602	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB603	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB604	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB605	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB606	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB607	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB608	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB609	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
FB620	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH						
<IC LINK>								
PS620	$\Delta$ 1-532-686-21	LINK, IC 2.7A						
PS622	$\Delta$ 1-532-686-21	LINK, IC 2.7A						
<TRANSISTOR>								
Q601	8-729-119-78	TRANSISTOR 2SC2785-HFE						
Q620	8-729-119-78	TRANSISTOR 2SC2785-HFE						
Q621	8-729-119-76	TRANSISTOR 2SA1175-HFE						
Q641	8-729-119-78	TRANSISTOR 2SC2785-HFE						
Q642	8-729-119-78	TRANSISTOR 2SC2785-HFE						
Q643	8-729-140-96	TRANSISTOR 2SD774-34						
Q644	8-729-140-97	TRANSISTOR 2SB734-34						
Q645	8-729-119-78	TRANSISTOR 2SC2785-HFE						
Q646	8-729-119-78	TRANSISTOR 2SC2785-HFE						
<RESISTOR>								
R601	$\Delta$ 1-202-719-00	SOLID	1M 20%	1/2W				
R602	1-202-981-11	WIREWOUND	0.82 5%	20W				
R603	1-215-928-71	METAL OXIDE	68K 5%	3W F				
R605	1-216-381-11	METAL OXIDE	0.22 5%	3W F				
R606	1-216-381-11	METAL OXIDE	0.22 5%	3W F				
R607	1-249-415-11	CARBON	680 5%	1/4W				
R608	1-249-418-11	CARBON	1.2K 5%	1/4W				
R610	1-249-424-11	CARBON	3.9K 5%	1/4W F				
R611	1-249-424-11	CARBON	3.9K 5%	1/4W F				
R613	1-249-417-11	CARBON	1K 5%	1/4W				
R614	1-249-388-11	CARBON	3.9 5%	1/4W F				
R615	1-249-417-11	CARBON	1K 5%	1/4W				
R619	1-249-421-11	CARBON	2.2K 5%	1/4W				
R620	$\Delta$ 1-218-265-11	METAL	8.2M 5%	1W				
R627	1-249-377-11	CARBON	0.47 5%	1/4W F				
R628	1-249-377-11	CARBON	0.47 5%	1/4W F				
R629	1-249-377-11	CARBON	0.47 5%	1/4W F				
R630	1-249-437-11	CARBON	47K 5%	1/4W				
R631	1-215-472-00	METAL	130K 1%	1/4W				
R632	1-216-386-11	METAL OXIDE	0.56 5%	3W F				
R633	1-216-386-11	METAL OXIDE	0.56 5%	3W F				
R634	1-215-445-00	METAL	10K 1%	1/4W				
R636	1-216-482-11	METAL OXIDE	1.8K 5%	3W F				
R637	1-216-357-00	METAL OXIDE	4.7 5%	1W F				

G (PVM-2950Q)

G (PVM-2950QM)

Les composants identifies par une trame et une marque  $\Delta$  sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark  are critical for safety.  
Replace only with part number specified.

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

G (PVM-2950QM)

C

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC641	8-759-701-56	IC NJM78M05FA		R643	1-249-424-11	CARBON	3.9K 5% 1/4W
		<COIL>		R644	1-249-429-11	CARBON	10K 5% 1/4W
L601	1-459-946-11	COIL, NOISE FILTER		R645	1-249-433-11	CARBON	22K 5% 1/4W
L620	1-406-663-21	COIL, CHOKE 47UH		R646	1-249-424-11	CARBON	3.9K 5% 1/4W
L621	1-412-533-21	INDUCTOR 47UH		R647	1-249-429-11	CARBON	10K 5% 1/4W
L622	1-412-533-21	INDUCTOR 47UH		R648	1-249-417-11	CARBON	1K 5% 1/4W
L623	1-412-527-11	INDUCTOR 15UH		R649	1-247-895-00	CARBON	470K 5% 1/4W
L624	1-412-527-11	INDUCTOR 15UH		R650	1-259-881-11	CARBON	2.7M 5% 1/4W
		<PHOTO COUPLER>		R660	$\Delta$ 1-247-903-00	CARBON	1M 5% 1/4W
PH602	$\Delta$ 8-749-923-50	PHOTO COUPLER PC111YS		R661	1-216-492-11	METAL OXIDE	82K 5% 3W F
		<IC LINK>				<RELAY>	
PS620	$\Delta$ 1-532-686-21	LINK, IC 2.7A		RY601	$\Delta$ 1-515-738-11	RELAY	
PS622	$\Delta$ 1-532-686-21	LINK, IC 2.7A		RY602	$\Delta$ 1-515-738-11	RELAY	
		<TRANSISTOR>				<TRANSFORMER>	
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE		T601	$\Delta$ 1-426-716-11	TRANSFORMER, LINE FILTER (LFT)	
Q602	8-729-119-78	TRANSISTOR 2SC2785-HFE		T602	$\Delta$ 1-426-716-11	TRANSFORMER, LINE FILTER (LFT)	
Q620	8-729-119-78	TRANSISTOR 2SC2785-HFE		T603	$\Delta$ 1-426-945-11	TRANSFORMER, POWER	
Q621	8-729-119-76	TRANSISTOR 2SA1175-HFE		T604	$\Delta$ 1-426-947-11	TRANSFORMER, CONVERTER (SRT)	
Q641	8-729-119-78	TRANSISTOR 2SC2785-HFE				<VARISTOR>	
Q642	8-729-119-78	TRANSISTOR 2SC2785-HFE		VDR601	$\Delta$ 1-810-271-21	VARISTOR ZNR-14DK471U	
Q643	8-729-140-96	TRANSISTOR 2SD774-34				*****	
		<RESISTOR>				*A-1331-344-A C BOARD, COMPLETE	*****
R601	$\Delta$ 1-202-719-00	SOLID STATE 1M 20% 1/2W				4-382-854-11 SCREW (M3X10), P, SW (+)	
R602	1-215-929-11	METAL OXIDE 100K 5% 3W F					
R603	1-216-492-11	METAL OXIDE 82K 5% 3W F					
R604	1-215-929-11	METAL OXIDE 100K 5% 3W F					
R605	1-216-382-11	METAL OXIDE 0.27 5% 3W F					
R606	1-216-383-11	METAL OXIDE 0.33 5% 3W F					
R607	1-249-415-11	CARBON 680 5% 1/4W					
R608	1-249-418-11	CARBON 1.2K 5% 1/4W					
R609	1-249-437-11	CARBON 47K 5% 1/4W F					
R610	1-249-425-11	CARBON 4.7K 5% 1/4W F					
R611	1-249-425-11	CARBON 4.7K 5% 1/4W F					
R613	1-249-417-11	CARBON 1K 5% 1/4W					
R614	1-249-385-11	CARBON 2.2 5% 1/4W F					
R615	1-249-417-11	CARBON 1K 5% 1/4W					
R616	1-249-417-11	CARBON 1K 5% 1/4W					
R617	1-247-811-31	CARBON 150 5% 1/4W					
R618	1-249-419-11	CARBON 1.5K 5% 1/4W					
R619	1-249-421-11	CARBON 2.2K 5% 1/4W					
R627	1-249-377-11	CARBON 0.47 5% 1/4W F					
R628	1-249-377-11	CARBON 0.47 5% 1/4W F					
R629	1-249-377-11	CARBON 0.47 5% 1/4W F					
R630	1-249-437-11	CARBON 47K 5% 1/4W					
R631	1-215-472-00	METAL 130K 1% 1/4W					
R632	1-216-386-11	METAL OXIDE 0.56 5% 3W F					
R633	1-216-386-11	METAL OXIDE 0.56 5% 3W F					
R634	1-215-445-00	METAL 10K 1% 1/4W					
R636	1-216-482-11	METAL OXIDE 1.8K 5% 3W F					
R637	1-216-357-00	METAL OXIDE 4.7 5% 1W F					
R638	1-249-433-11	CARBON 22K 5% 1/4W					
R639	1-259-884-11	CARBON 4.7M 5% 1/4W					
R642	1-216-422-11	METAL OXIDE 18 5% 1W F					
		<CONNECTOR>					
		CN702 *1-564-512-11 PLUG, CONNECTOR 9P					
		CN703 *1-573-964-11 PIN, CONNECTOR (PC BOARD) 6P					
		<DIODE>					
		D704 8-719-911-19 DIODE 1SS119					

C V

Les composants identifiés par une trame et une marque **A** sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark **A** are critical for safety.  
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D705	8-719-911-19	DIODE 1SS119		R739	1-202-813-00	SOLID	22K 20% 1/2W
D706	8-719-911-19	DIODE 1SS119		R741	1-202-842-11	SOLID	220K 20% 1/2W
D761	8-719-911-19	DIODE 1SS119		R747	1-202-883-11	SOLID	680K 20% 1/2W
D762	8-719-911-19	DIODE 1SS119		R748	1-202-838-00	SOLID	100K 20% 1/2W
D763	8-719-911-19	DIODE 1SS119		R751	1-216-483-11	METAL OXIDE	2.7K 5% 3W F
D771	8-719-109-84	DIODE RD5.1ESB1		R754	1-216-483-11	METAL OXIDE	2.7K 5% 3W F
D772	8-719-911-19	DIODE 1SS119		R757	1-216-483-11	METAL OXIDE	2.7K 5% 3W F
D781	8-719-901-83	DIODE 1SS83		R760	1-249-434-11	CARBON	27K 5% 1/4W
D782	8-719-901-83	DIODE 1SS83		R761	1-260-328-11	CARBON	1K 5% 1/2W
D783	8-719-901-83	DIODE 1SS83		R762	1-260-328-11	CARBON	1K 5% 1/2W
D784	8-719-901-83	DIODE 1SS83		R763	1-260-328-11	CARBON	1K 5% 1/2W
				R771	1-249-425-11	CARBON	4.7K 5% 1/4W
				R772	1-249-429-11	CARBON	10K 5% 1/4W
				R773	1-215-904-11	METAL OXIDE	100K 5% 2W F
IC701	8-759-140-53	IC UPD4053BC		R774	1-247-895-00	CARBON	470K 5% 1/4W
				R775	1-249-425-11	CARBON	4.7K 5% 1/4W
				R776	1-249-425-11	CARBON	4.7K 5% 1/4W
				R777	1-247-887-00	CARBON	220K 5% 1/4W
J701	A 1-540-223-11	SOCKET, PICTURE TUBE		R781	1-260-352-11	CARBON	100K 5% 1/2W
				R782	1-260-352-11	CARBON	100K 5% 1/2W
				R783	1-260-352-11	CARBON	100K 5% 1/2W
				R784	1-215-904-11	METAL OXIDE	100K 5% 2W F
				R790	1-249-427-11	CARBON	6.8K 5% 1/4W
L707	1-410-671-31	INDUCTOR	47UH	R791	1-247-807-31	CARBON	100 5% 1/4W
				R792	1-249-438-11	CARBON	56K 5% 1/4W
				R793	1-249-432-11	CARBON	18K 5% 1/4W
				R794	1-249-438-11	CARBON	56K 5% 1/4W
				R795	1-249-419-11	CARBON	1.5K 5% 1/4W
				R796	1-247-807-31	CARBON	100 5% 1/4W
							<VARIABLE RESISTOR>
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV707	1-241-714-11	RES, ADJ, METAL FILM	110M
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE		RV710	1-230-641-11	RES, ADJ, METAL GLAZE	2.2M
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE					<TAB>
Q704	8-729-326-11	TRANSISTOR 2SC2611		TB704	1-695-915-11	TAB (CONTACT)	
Q705	8-729-326-11	TRANSISTOR 2SC2611					*****
Q706	8-729-326-11	TRANSISTOR 2SC2611					*A-1342-246-A V BOARD, COMPLETE
Q761	8-729-200-17	TRANSISTOR 2SA1091-0					*****
Q762	8-729-200-17	TRANSISTOR 2SA1091-0					4-382-854-11 SCREW (M3X10), P, SW (+)
Q763	8-729-200-17	TRANSISTOR 2SA1091-0					
Q771	8-729-255-12	TRANSISTOR 2SC2551-0					
Q784	8-729-255-12	TRANSISTOR 2SC2551-0					
Q790	8-729-119-76	TRANSISTOR 2SA1175-HFE					
							<RESISTOR>
R701	1-249-406-11	CARBON	120 5% 1/4W				
R702	1-249-406-11	CARBON	120 5% 1/4W				
R703	1-249-406-11	CARBON	120 5% 1/4W				
R704	1-249-393-11	CARBON	10 5% 1/4W				
R705	1-249-393-11	CARBON	10 5% 1/4W				
R706	1-249-393-11	CARBON	10 5% 1/4W				
R707	1-249-415-11	CARBON	680 5% 1/4W				
R713	1-249-415-11	CARBON	680 5% 1/4W				
R714	1-249-415-11	CARBON	680 5% 1/4W				
R719	1-216-483-11	METAL OXIDE	2.7K 5% 3W F				
R722	1-216-483-11	METAL OXIDE	2.7K 5% 3W F				
R725	1-216-483-11	METAL OXIDE	2.7K 5% 3W F				
R727	1-202-818-00	SOLID	1K 20% 1/2W				
R728	1-202-818-00	SOLID	1K 20% 1/2W				
R729	1-202-818-00	SOLID	1K 20% 1/2W				
R730	1-202-549-00	SOLID	100 10% 1/2W				
R735	1-216-367-11	METAL OXIDE	0.68 5% 2W F				
							<CAPACITOR>
				C951	1-102-074-00	CERAMIC	0.001MF 10% 50V
				C952	1-102-125-00	CERAMIC	0.0047MF 10% 50V
				C961	1-161-830-00	CERAMIC	0.0047MF 500V
				C962	1-102-951-00	CERAMIC	15PF 5% 50V
				C963	1-107-638-11	ELECT	33MF 20% 160V
				C964	1-126-933-11	ELECT	100MF 20% 16V
				C968	1-106-383-00	MYLAR	0.047MF 200V
				C969	1-124-668-11	ELECT	2.2MF 20% 160V
				C970	1-106-391-12	MYLAR	0.1MF 10% 200V
				C971	1-126-157-11	ELECT	10MF 20% 16V
				C972	1-107-883-11	ELECT	330MF 20% 16V
				C973	1-106-383-00	MYLAR	0.047MF 200V
				C974	1-102-959-00	CERAMIC	22PF 5% 50V
				C975	1-126-933-11	ELECT	100MF 20% 16V
				C976	1-126-157-11	ELECT	10MF 20% 16V
				C977	1-102-963-00	CERAMIC	33PF 5% 50V

V	VC
---	----

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK						
C978	1-130-471-00	MYLAR	0.001MF	5%	50V	R989	1-249-413-11	CARBON	470	5%	1/4W		
C979	1-130-471-00	MYLAR	0.001MF	5%	50V	R990	1-216-475-11	METAL OXIDE	120	5%	3W		
C980	1-126-964-11	ELECT	10MF	20%	50V	R991	1-249-409-11	CARBON	220	5%	1/4W		
*****													
<CONNECTOR>													
CN901	*1-564-512-11	PLUG, CONNECTOR 9P				*A-1347-093-A	VC BOARD, COMPLETE						
*****													
<DIODE>													
D961	8-719-911-19	DIODE	ISS119			C1801	1-124-126-00	ELECT	47MF	20%	16V		
D963	8-719-911-19	DIODE	ISS119			C1803	1-124-126-00	ELECT	47MF	20%	16V		
D964	8-719-911-19	DIODE	ISS119			C1804	1-124-126-00	ELECT	47MF	20%	16V		
D965	8-719-911-19	DIODE	ISS119			C1805	1-136-157-00	FILM	0.022MF	5%	50V		
D966	8-719-911-19	DIODE	ISS119			C1808	1-130-471-00	MYLAR	0.001MF	5%	50V		
D967	8-719-110-88	DIODE	RD39ESB2			C1809	1-130-471-00	MYLAR	0.001MF	5%	50V		
D968	8-719-110-88	DIODE	RD39ESB2			C1810	1-136-171-00	FILM	0.33MF	5%	50V		
<COIL>													
L962	1-408-416-00	INDUCTOR	39UH			C1811	1-136-171-00	FILM	0.33MF	5%	50V		
<TRANSISTOR>													
Q961	8-729-119-78	TRANSISTOR	2SC2785-HFE			C1812	1-126-320-11	ELECT	10MF	20%	16V		
Q962	8-729-119-76	TRANSISTOR	2SA1175-HFE			C1817	1-104-665-11	ELECT	100MF	20%	25V		
Q963	8-729-809-26	TRANSISTOR	2SA1606-E			C1820	1-107-710-11	ELECT	100MF	20%	35V		
Q964	8-729-119-78	TRANSISTOR	2SC2785-HFE			C1850	1-136-153-00	FILM	0.01MF	5%	50V		
Q965	8-729-809-29	TRANSISTOR	2SC4159-E			<CONNECTOR>							
Q966	8-729-119-78	TRANSISTOR	2SC2785-HFE			CN801	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P					
Q967	8-729-142-86	TRANSISTOR	2SC3733			CN1850	1-564-517-11	PLUG, CONNECTOR 2P					
Q968	8-729-119-78	TRANSISTOR	2SC2785-HFE			<DIODE>							
<RESISTOR>													
R951	1-249-434-11	CARBON	27K	5%	1/4W	D1801	8-719-109-93	DIODE	RD6.2ESB2				
R952	1-249-423-11	CARBON	3.3K	5%	1/4W	D1802	8-719-109-93	DIODE	RD6.2ESB2				
R953	1-249-423-11	CARBON	3.3K	5%	1/4W	D1806	8-719-911-19	DIODE	ISS119				
R954	1-247-903-00	CARBON	1M	5%	1/4W	D1817	8-719-987-87	DIODE	ERA85-009				
R955	1-249-421-11	CARBON	2.2K	5%	1/4W	D1818	8-719-987-87	DIODE	ERA85-009				
R962	1-249-409-11	CARBON	220	5%	1/4W	D1822	8-719-109-93	DIODE	RD6.2ESB2				
R963	1-249-419-11	CARBON	1.5K	5%	1/4W	D1823	8-719-109-93	DIODE	RD6.2ESB2				
R964	1-260-311-11	CARBON	39	5%	1/2W	D1824	8-719-987-87	DIODE	ERA85-009				
R965	1-249-414-11	CARBON	560	5%	1/4W	D1850	8-719-911-19	DIODE	ISS119				
R966	1-249-418-11	CARBON	1.2K	5%	1/4W	<IC>							
R968	1-249-418-11	CARBON	1.2K	5%	1/4W	IC1801	8-759-231-53	IC	TA7805S				
R969	1-249-384-11	CARBON	1.8	5%	1/4W	IC1802	8-759-135-80	IC	UPC358C				
R970	1-249-435-11	CARBON	33K	5%	1/4W	IC1803	8-759-902-21	IC	SN74LS221N				
R972	1-249-432-11	CARBON	18K	5%	1/4W	IC1850	8-759-603-37	IC	M5216P				
R974	1-216-476-11	METAL OXIDE	180	5%	3W	<TRANSISTOR>							
R975	1-249-417-11	CARBON	1K	5%	1/4W	Q1801	8-729-119-78	TRANSISTOR	2SC2785-HFE				
R976	1-249-432-11	CARBON	18K	5%	1/4W	Q1802	8-729-119-76	TRANSISTOR	2SA1175-HFE				
R977	1-249-438-11	CARBON	56K	5%	1/4W	Q1803	8-729-119-78	TRANSISTOR	2SC2785-HFE				
R978	1-249-430-11	CARBON	12K	5%	1/4W	Q1804	8-729-119-76	TRANSISTOR	2SA1175-HFE				
R979	1-249-414-11	CARBON	560	5%	1/4W	Q1805	8-729-119-78	TRANSISTOR	2SC2785-HFE				
R980	1-249-420-11	CARBON	1.8K	5%	1/4W	Q1806	8-729-385-82	TRANSISTOR	2SB858-C				
R981	1-249-415-11	CARBON	680	5%	1/4W	Q1807	8-729-809-26	TRANSISTOR	2SA1606-E				
R982	1-249-384-11	CARBON	1.8	5%	1/4W	Q1808	8-729-809-29	TRANSISTOR	2SC4159-E				
R983	1-249-441-11	CARBON	100K	5%	1/4W	Q1809	8-729-119-76	TRANSISTOR	2SA1175-HFE				
R984	1-247-807-31	CARBON	100	5%	1/4W	Q1810	8-729-119-78	TRANSISTOR	2SC2785-HFE				
R985	1-249-400-11	CARBON	39	5%	1/4W	Q1811	8-729-208-71	TRANSISTOR	2SC3298B-O				
R986	1-249-435-11	CARBON	33K	5%	1/4W	Q1850	8-729-119-78	TRANSISTOR	2SC2785-HFE				
R987	1-249-428-11	CARBON	8.2K	5%	1/4W	Q1851	8-729-119-78	TRANSISTOR	2SC2785-HFE				
R988	1-249-415-11	CARBON	680	5%	1/4W								

**VC H3**

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK	
<b>&lt;RESISTOR&gt;</b>								
R1801	1-215-866-11	METAL OXIDE	330 5%	1W	F	D874	8-719-404-46	DIODE MA110
R1802	1-247-887-00	CARBON	220K 5%	1/4W		D875	8-719-404-46	DIODE MA110
R1803	1-215-467-00	METAL	82K 1%	1/4W		D876	8-719-404-46	DIODE MA110
R1806	1-217-477-00	FUSIBLE	4.7 5%	1W	F			
R1808	1-247-887-00	CARBON	220K 5%	1/4W				
R1811	1-249-429-11	CARBON	10K 5%	1/4W				
R1812	1-249-417-11	CARBON	1K 5%	1/4W				
R1813	1-215-473-00	METAL	150K 1%	1/4W				
R1814	1-249-429-11	CARBON	10K 5%	1/4W				
R1818	1-213-070-00	FUSIBLE	27 5%	1W	F			
R1819	1-215-913-11	METAL OXIDE	220 5%	3W	F	IC871	8-759-165-26	IC SC402130B
R1820	1-216-451-11	METAL OXIDE	120 5%	2W	F	L871	1-408-421-00	INDUCTOR 100UH
R1822	1-249-409-11	CARBON	220 5%	1/4W	F	L872	1-408-429-00	INDUCTOR 470UH
R1823	1-249-401-11	CARBON	47 5%	1/4W	F			
R1825	1-215-455-00	METAL	27K 1%	1/4W				
R1828	1-215-866-11	METAL OXIDE	330 5%	1W	F	Q871	8-729-901-01	TRANSISTOR DTC144EK
R1829	1-213-070-00	FUSIBLE	27 5%	1W	F	Q872	8-729-901-98	TRANSISTOR 2SA1036K-R
R1830	1-217-477-00	FUSIBLE	4.7 5%	1W	F	Q873	8-729-901-98	TRANSISTOR 2SA1036K-R
R1831	1-216-429-00	METAL OXIDE	270 5%	1W	F	Q874	8-729-901-01	TRANSISTOR DTC144EK
R1846	1-249-429-11	CARBON	10K 5%	1/4W		Q875	8-729-901-01	TRANSISTOR DTC144EK
R1850	1-249-417-11	CARBON	1K 5%	1/4W		Q876	8-729-901-01	TRANSISTOR DTC144EK
R1851	1-215-451-00	METAL	18K 1%	1/4W		Q877	8-729-901-01	TRANSISTOR DTC144EK
R1852	1-215-455-00	METAL	27K 1%	1/4W		Q878	8-729-901-04	TRANSISTOR DTA114EK
R1853	1-215-452-00	METAL	20K 1%	1/4W				
R1854	1-215-447-00	METAL	12K 1%	1/4W				
<b>&lt;RESISTOR&gt;</b>								
R1855	1-215-445-00	METAL	10K 1%	1/4W		JR871	1-216-295-91	METAL GLAZE 0 5% 1/10W
R1856	1-215-427-00	METAL	1.8K 1%	1/4W		JR872	1-216-295-91	METAL GLAZE 0 5% 1/10W
R1857	1-249-422-11	CARBON	2.7K 5%	1/4W		JR873	1-216-295-91	METAL GLAZE 0 5% 1/10W
R1858	1-249-429-11	CARBON	10K 5%	1/4W		JR874	1-216-296-91	METAL GLAZE 0 5% 1/8W
R1859	1-249-422-11	CARBON	2.7K 5%	1/4W		JR875	1-216-295-91	METAL GLAZE 0 5% 1/10W
R1860	1-249-429-11	CARBON	10K 5%	1/4W		R871	1-216-294-00	METAL GLAZE 10M 5% 1/8W
<b>&lt;VARIABLE RESISTOR&gt;</b>								
RV1801	1-241-766-11	RES, ADJ, CERMET	47K			R872	1-216-089-91	METAL GLAZE 47K 5% 1/10W
*****								
*A-1372-005-A H3 BOARD, COMPLETE								
*****								
<b>&lt;CAPACITOR&gt;</b>								
C871	1-126-924-11	ELECT	330MF	20%	10V	R881	1-216-009-00	METAL GLAZE 22 5% 1/10W
C872	1-163-035-00	CERAMIC CHIP	0.047MF	50V		R882	1-216-009-00	METAL GLAZE 22 5% 1/10W
C873	1-126-952-11	ELECT	1000MF	20%	16V	R883	1-216-009-00	METAL GLAZE 22 5% 1/10W
C874	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	R884	1-216-089-91	METAL GLAZE 47K 5% 1/10W
C875	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	R885	1-216-073-00	METAL GLAZE 10K 5% 1/10W
<b>&lt;CONNECTOR&gt;</b>								
CN871	*1-564-506-11	PLUG, CONNECTOR	3P			R886	1-216-073-00	METAL GLAZE 10K 5% 1/10W
CN872	1-564-511-11	PLUG, CONNECTOR	8P			R887	1-216-089-91	METAL GLAZE 47K 5% 1/10W
CN873	*1-564-513-11	PLUG, CONNECTOR	10P			R888	1-216-073-00	METAL GLAZE 10K 5% 1/10W
CN874	*1-564-509-11	PLUG, CONNECTOR	6P					
CN875	1-564-505-11	PLUG, CONNECTOR	2P					
CN877	*1-573-299-11	CONNECTOR, BOARD TO BOARD	10P					
<b>&lt;DIODE&gt;</b>								
D871	8-719-404-46	DIODE	MA110					
D872	8-719-404-46	DIODE	MA110					
D873	8-719-404-46	DIODE	MA110					
*****								
<b>&lt;CRYSTAL&gt;</b>								
X871	1-577-082-11	VIBRATOR, CERAMIC						
*****								

UA UJ

UJ UT

UT

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C261	1-163-035-00	CERAMIC CHIP 0.047MF		Q204	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C262	1-124-126-00	ELECT 47MF	20% 16V	Q205	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C263	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	Q206	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C270	1-124-903-11	ELECT 1MF	20% 50V	Q207	8-729-216-22	TRANSISTOR 2SA1162-G	
C271	1-124-927-11	ELECT 4.7MF	20% 50V	Q208	8-729-216-22	TRANSISTOR 2SA1162-G	
C272	1-124-903-11	ELECT 1MF	20% 50V	Q211	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C273	1-124-126-00	ELECT 47MF	20% 16V	Q212	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C274	1-163-035-00	CERAMIC CHIP 0.047MF	50V	Q213	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C275	1-124-126-00	ELECT 47MF	20% 16V	Q214	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C276	1-136-167-00	FILM 0.15MF	5% 50V	Q215	8-729-216-22	TRANSISTOR 2SA1162-G	
C277	1-136-157-00	FILM 0.022MF	5% 50V	Q216	8-729-901-01	TRANSISTOR DTC144EK	
C278	1-124-925-11	ELECT 2.2MF	20% 50V	Q217	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C279	1-163-249-11	CERAMIC CHIP 82PF	5% 50V	Q218	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C280	1-137-364-11	FILM 0.001MF	5% 50V	Q219	8-729-216-22	TRANSISTOR 2SA1162-G	
C281	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	Q220	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C282	1-124-126-00	ELECT 47MF	20% 16V	Q221	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C283	1-163-035-00	CERAMIC CHIP 0.047MF	50V	Q222	8-729-901-01	TRANSISTOR DTC144EK	
C290	1-124-927-11	ELECT 4.7MF	20% 50V	Q223	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
<CONNECTOR>							
CN201	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		Q224	8-729-216-22	TRANSISTOR 2SA1162-G	
CN202	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		Q225	8-729-216-22	TRANSISTOR 2SA1162-G	
CN203	*1-564-506-11	PLUG, CONNECTOR 3P		Q226	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
CN204	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P		Q227	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
CN205	1-573-300-11	CONNECTOR, BOARD TO BOARD 18P		Q228	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
CN206	1-564-505-11	PLUG, CONNECTOR 2P		Q229	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
<DIODE>							
D202	8-719-911-19	DIODE 1SS119		R201	1-216-295-91	METAL GLAZE 0 5%	1/10W
D203	8-719-911-19	DIODE 1SS119		R202	1-216-295-91	METAL GLAZE 0 5%	1/10W
D205	8-719-911-19	DIODE 1SS119		R203	1-216-295-91	METAL GLAZE 0 5%	1/10W
D206	8-719-109-68	DIODE RD3.6ESB1		R204	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
<FILTER>							
FL201	1-239-550-11	FILTER, LOW PASS		R205	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
FL202	1-239-550-11	FILTER, LOW PASS		R206	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
FL203	1-239-550-11	FILTER, LOW PASS		R207	1-216-049-00	METAL GLAZE 2.2K 5%	1/10W
<IC>							
IC201	8-752-067-28	IC CXA1545AS		R208	1-216-033-00	METAL GLAZE 220 5%	1/10W
IC202	8-741-765-01	IC SBX1765-01		R209	1-216-033-00	METAL GLAZE 220 5%	1/10W
IC203	8-759-800-81	IC LA7016		R210	1-216-033-00	METAL GLAZE 220 5%	1/10W
IC204	8-759-245-75	IC TA8184P		R211	1-216-081-00	METAL GLAZE 22K 5%	1/10W
IC205	8-752-058-68	IC CXA1315M		R212	1-216-081-00	METAL GLAZE 22K 5%	1/10W
IC206	8-759-009-82	IC MC14011BF-T2		R213	1-216-081-00	METAL GLAZE 22K 5%	1/10W
IC207	8-759-800-81	IC LA7016		R214	1-216-081-00	METAL GLAZE 22K 5%	1/10W
IC208	8-759-009-82	IC MC14011BF-T2		R215	1-216-089-91	METAL GLAZE 47K 5%	1/10W
<COIL>							
L201	1-408-421-00	INDUCTOR 100UH		R216	1-216-081-00	METAL GLAZE 22K 5%	1/10W
L202	1-408-421-00	INDUCTOR 100UH		R217	1-216-081-00	METAL GLAZE 22K 5%	1/10W
L203	1-408-421-00	INDUCTOR 100UH		R218	1-216-089-91	METAL GLAZE 47K 5%	1/10W
L204	1-408-414-00	INDUCTOR 27UH		R219	1-216-049-00	METAL GLAZE 1K 5%	1/10W
L205	1-408-414-00	INDUCTOR 27UH		R220	1-216-049-00	METAL GLAZE 1K 5%	1/10W
<TRANSISTOR>							
Q201	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R221	1-216-049-00	METAL GLAZE 22K 5%	1/10W
Q202	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R222	1-216-049-00	METAL GLAZE 1K 5%	1/10W
Q203	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R223	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
<RESISTOR>							
JR1	1-216-295-91	METAL GLAZE 0 5%	1/10W	R224	1-216-033-00	METAL GLAZE 220 5%	1/10W
JR2	1-216-295-91	METAL GLAZE 0 5%	1/10W	R225	1-216-033-00	METAL GLAZE 220 5%	1/10W
JR4	1-216-295-91	METAL GLAZE 0 5%	1/10W	R226	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R201	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R227	1-216-035-00	METAL GLAZE 270 5%	1/10W
R202	1-216-025-00	METAL GLAZE 100 5%	1/10W	R228	1-216-049-00	METAL GLAZE 1K 5%	1/10W
R203	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W	R229	1-216-071-00	METAL GLAZE 8.2K 5%	1/10W
R204	1-216-025-00	METAL GLAZE 100 5%	1/10W	R230	1-216-057-00	METAL GLAZE 2.2K 5%	1/10W
R205	1-216-033-00	METAL GLAZE 220 5%	1/10W	R231	1-216-295-91	METAL GLAZE 0 5%	1/10W
R206	1-216-033-00	METAL GLAZE 220 5%	1/10W	R232	1-216-295-91	METAL GLAZE 0 5%	1/10W
R207	1-216-049-00	METAL GLAZE 1K 5%	1/10W	R233	1-216-061-00	METAL GLAZE 3.3K 5%	1/10W

UT H

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R234	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1209	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R235	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	R1210	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R236	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R1211	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R237	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R1212	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R238	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R1213	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W
R239	1-216-043-00	METAL GLAZE	560	5%	1/10W	R1214	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R240	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1215	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R241	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1216	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
R242	1-216-025-00	METAL GLAZE	100	5%	1/10W	R1217	1-216-033-00	METAL GLAZE	220	5%	1/10W
R243	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	R1218	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R248	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	R1219	1-216-115-00	METAL GLAZE	560K	5%	1/10W
R249	1-216-043-00	METAL GLAZE	560	5%	1/10W	R1220	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R250	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R1221	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R251	1-216-081-00	METAL GLAZE	22K	5%	1/10W	R1222	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R252	1-216-077-00	METAL GLAZE	15K	5%	1/10W	R1223	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R253	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	<VARIABLE RESISTOR>					
R254	1-216-045-00	METAL GLAZE	680	5%	1/10W	RV201	1-241-761-11	RES, ADJ, CARBON 1K			
R255	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	RV202	1-241-763-11	RES, ADJ, CARBON 4.7K			
R256	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	***** H BOARD, COMPLETE *****					
R257	1-216-081-00	METAL GLAZE	22K	5%	1/10W	*****					
R258	1-216-077-00	METAL GLAZE	15K	5%	1/10W	*****					
R259	1-216-025-00	METAL GLAZE	100	5%	1/10W	*****					
R260	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	*****					
R261	1-216-025-00	METAL GLAZE	100	5%	1/10W	*****					
R262	1-216-035-00	METAL GLAZE	270	5%	1/10W	*****					
R263	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	*****					
R264	1-216-043-00	METAL GLAZE	560	5%	1/10W	9-908-867-01	HOLDER, LED				
R265	1-216-025-00	METAL GLAZE	100	5%	1/10W	9-908-869-01	KEY TOP				
R266	1-216-033-00	METAL GLAZE	220	5%	1/10W	9-990-891-01	BOARD, REFLECTION A				
R267	1-216-091-00	METAL GLAZE	56K	5%	1/10W	9-990-892-01	BOARD, DISPENSER A				
R268	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	<CAPACITOR>					
R271	1-216-075-00	METAL GLAZE	12K	5%	1/10W	C1111	1-126-157-11	ELECT	10MF	20%	16V
R272	1-216-073-00	METAL GLAZE	10K	5%	1/10W	*****					
R273	1-216-073-00	METAL GLAZE	10K	5%	1/10W	*****					
R274	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	*****					
R275	1-216-033-00	METAL GLAZE	220	5%	1/10W	<DIODE>					
R276	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	D1111	9-908-868-01	DIODE TLS263P			
R277	1-216-117-00	METAL GLAZE	680K	5%	1/10W	D1112	8-719-802-17	DIODE TLY263P			
R278	1-216-089-91	METAL GLAZE	47K	5%	1/10W	D1113	8-719-802-17	DIODE TLY263P			
R279	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	D1114	8-719-802-17	DIODE TLY263P			
R280	1-216-039-00	METAL GLAZE	390	5%	1/10W	D1115	8-719-802-17	DIODE TLY263P			
R282	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	D1116	8-719-802-17	DIODE TLY263P			
R283	1-216-045-00	METAL GLAZE	680	5%	1/10W	D1117	8-719-802-17	DIODE TLY263P			
R284	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	D1118	8-719-802-17	DIODE TLY263P			
R285	1-216-089-91	METAL GLAZE	47K	5%	1/10W	D1119	8-719-802-17	DIODE TLY263P			
R286	1-216-097-00	METAL GLAZE	100K	5%	1/10W	D1120	8-719-802-17	DIODE TLY263P			
R288	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	D1121	8-719-802-17	DIODE TLY263P			
R289	1-216-073-00	METAL GLAZE	10K	5%	1/10W	D1122	8-719-802-17	DIODE TLY263P			
R290	1-216-073-00	METAL GLAZE	10K	5%	1/10W	D1123	8-719-802-17	DIODE TLY263P			
R291	1-216-077-00	METAL GLAZE	15K	5%	1/10W	D1124	8-719-802-17	DIODE TLY263P			
R292	1-216-073-00	METAL GLAZE	10K	5%	1/10W	D1125	8-719-802-17	DIODE TLY263P			
R294	1-216-089-91	METAL GLAZE	47K	5%	1/10W	D1126	8-719-802-17	DIODE TLY263P			
R295	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	D1127	8-719-802-17	DIODE TLY263P			
R296	1-216-085-00	METAL GLAZE	33K	5%	1/10W	D1130	8-719-802-17	DIODE TLY263P			
R298	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	D1131	8-719-802-17	DIODE TLY263P			
R299	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	D1132	8-719-802-17	DIODE TLY263P			
R1201	1-216-079-00	METAL GLAZE	18K	5%	1/10W	D1133	8-719-802-17	DIODE TLY263P			
R1202	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	D1134	8-719-911-19	DIODE ISS119			
R1203	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	D1135	8-719-911-19	DIODE ISS119			
R1204	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	D1136	8-719-911-19	DIODE ISS119			
R1205	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	D1137	8-719-911-19	DIODE ISS119			
R1206	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	<IC>					
R1207	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	<IC>					
R1208	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	<IC>					

**H**

The components identified by shading and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par une trame et une marque  $\Delta$  sont critiques pour la sécurité.  
Ne les remplacer que par une pièce portant le numéro spécifié.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
IC1111	9-902-229-01	IC GP1U52R		*4-044-689-01		INDIVIDUAL CARTON (PVM-2950Q)	
<b>&lt;RESISTOR&gt;</b>							
R1111	1-247-807-11	CARBON	100 5% 1/4W				
R1112	1-247-807-11	CARBON	100 5% 1/4W				
R1113	1-247-879-11	CARBON	100K 5% 1/4W				
R1114	1-247-879-11	CARBON	100K 5% 1/4W				
R1115	1-247-879-11	CARBON	100K 5% 1/4W				
R1116	1-247-879-11	CARBON	100K 5% 1/4W				
R1117	1-249-408-11	CARBON	180 5% 1/4W				
R1118	1-249-403-11	CARBON	68 5% 1/4W				
R1119	1-249-408-11	CARBON	180 5% 1/4W				
R1120	1-249-408-11	CARBON	180 5% 1/4W				
R1121	1-249-408-11	CARBON	180 5% 1/4W				
R1122	1-249-408-11	CARBON	180 5% 1/4W				
<b>&lt;SWITCH&gt;</b>							
S1111	1-554-303-21	SWITCH, KEY BOARD					
S1112	1-554-303-21	SWITCH, KEY BOARD					
S1113	1-554-303-21	SWITCH, KEY BOARD					
S1114	1-554-303-21	SWITCH, KEY BOARD					
S1115	1-554-303-21	SWITCH, KEY BOARD					
S1116	1-554-303-21	SWITCH, KEY BOARD					
S1117	1-554-303-21	SWITCH, KEY BOARD					
S1119	1-554-303-21	SWITCH, KEY BOARD					
S1120	1-554-303-21	SWITCH, KEY BOARD					
S1121	1-554-303-21	SWITCH, KEY BOARD					
S1122	1-554-303-21	SWITCH, KEY BOARD					
S1123	1-554-303-21	SWITCH, KEY BOARD					
S1124	1-554-118-00	SWITCH, PUSH (1 KEY)					
*****							
<b>MISCELLANEOUS</b>							
*****							
$\Delta$ 1-402-715-21		COIL, DEMAGNETIZATION (PVM-2950QM)					
$\Delta$ 1-402-716-21		COIL, DEMAGNETIZATION (PVM-2950QM)					
$\Delta$ 1-426-573-22		COIL, DEGAUSSING (PVM-2950Q)					
$\Delta$ 1-426-574-22		COIL, DEGAUSSING (PVM-2950Q)					
$\Delta$ 1-452-616-13		NECK ASSY, PICTURE TUBE (NA323)					
1-467-794-11		KEY BOARD UNIT					
$\Delta$ 1-580-375-11		INLET 3P					
1-900-140-13		LEAD ASSY, FOCUS					
$\Delta$ 8-451-394-31		DEFLECTION YOKE (Y29EXA)					
V901 $\Delta$ 8-733-845-05		PICTURE TUBE (M68KUZ10X)					
*****							
<b>ACCESSORIES AND PACKING MATERIALS</b>							
*****							
$\Delta$ 1-557-377-11		CORD, POWER (3 CORE) (10.0A/125V) (PVM-2950Q)					
$\Delta$ 1-590-151-11		CORD SET, POWER (10.0A/250V) (PVM-2950QM)					
2-990-242-01		HOLDER (B), PLUG (PVM-2950Q/2950QM(AEP))					
3-170-078-01		HOLDER (B), PLUG (PVM-2950QM(AUS))					
3-759-190-21		MANUAL, INSTRUCTION					
*4-039-562-02		CUSHION (RIGHT UPPER FRONT)					
*4-039-566-02		CUSHION (LEFT UPPER LOWER)					
*4-039-570-01		CUSHION (UPPER) (ASSY)					
*4-039-571-01		CUSHION (LOWER) (ASSY)					
*4-044-688-01		INDIVIDUAL CARTON (PVM-2950QM)					

9-978-431-01

**Sony Corporation**  
Consumer A&V Products Company  
TV & Display Products Div.

English  
94FK02282-1  
Printed in Japan  
©1994.6